THE LAND OF THE BLUE POPPY

TRAVELS OF A NATURALIST IN EASTERN TIBET

BY

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TO THE MEMORY OF MY I

HARRY MARSHALL WARD,

PROFESSOR OF BOTANY IN THE UN CAMBRIDGE, 1895—1906

THIS BOOK IS AFFECTIONATELY

PREFACE

THE following chapters record my experiences and observations in Western China and South-Eastern Tibet during the year 1911, when I was engaged in collecting plants for the horticultural firm of Bees Ltd. Liverpool.

The sketch maps are drawn from Major Davies's map of Yunnan, with additions and corrections of my own. While the latter in no sense represent accurate surveys, I think that they will be of assistance to the reader, possibly even to future travellers. The photographs I took myself.

A great deal of the pleasure derived from looking back on a year's work in a distant land is associated with memories of the friends I made, and the help they so willingly gave me.

To Mr Archibald Rose, C.I.E., at that time British Acting-Consul in T'eng-yueh, I owe more than I can say. When I entered Yunnan in February 1911, the people were restless, and it seemed at first that I might not be able to proceed beyond T'eng-yueh. However, Mr Rose, having suggested A-tun-tsi as a likely centre for my plant hunting, promised to see that I got safely thus far, and did so. Not only did A-tun-tsi prove a first-rate collecting ground, but thenceforward everything went smoothly.

Mr E. B. Howell, Commissioner of Customs at T'engyueh, brightened many a lonely hour for me by forwarding newspapers and sending up my mails, which came, on the average, about once in five weeks; and to M. Perronne, a French gentleman who was buying musk in A-tun-tsi, and Mr Edgar, English missionary in Batang, I was also indebted for assistance.

Finally I must record the deep debt of gratitude I owe Dr Guillemard, who has edited the book and, during my absence, seen it safely through the Press. Dr Guillemard's great experience of travel not in Asia only, and his wide knowledge of natural history, were always at my disposal, an inexhaustible fund of fact and advice to draw on. Numerous alterations and valuable suggestions are due to him, and without the time he willingly expended on it, the work would have been much less presentable.

My one hope is that by the time these lines appear I shall be back again in 'the Land of the Blue Poppy.'

F. K. W.

CAMBRIDGE 1913.

CHAPTER I

THE CALL OF THE RED GODS

On my return from Western China in September I settled down to humdrum life with every prose becoming a quiet and respectable citizen of Sheut in vain; travel had bitten too deeply into me and I soon began to feel restless again, so that who four months of civilised life something better turn I accepted with alacrity. This was none other the chance of plant-collecting on the Tibetan border of Y and though I had extremely vague ideas about the cand the method of procedure, I had mentally deciundertake the mission before I had finished readiletter in which the offer was set forth.

Three weeks later, on the last day of January I bade farewell to my friends in Shanghai and starte more on my travels, sailing on the ill-fated *Delhi*, dest make her last voyage just a year later. Soon we exc the bitter snow-storm which beat in our faces as we sout of the boundless Yang-tze for the warmth of the and I saw again the far-flung outposts of our Empire, strung like gems at either end of that mag of the Indies, which guard the approaches to the China Sea. However fully the guardian islands of Kong and Singapore may satiate the inhabitants wit undoubted distempers, to the traveller at least th never anything but charming.

At Penang, which in the business part of the city nothing of beauty save an occasional Traveller's spreading its great fan over temple or hong—sur indeed the name suggests, one of the most remark:

all the strange forms of tropic vegetation—I changed on to the British India boat for Rangoon, where we arrived three days later, and I spent a week in making preparations to go up country. It is not a really fascinating city, though the glory of the Shwe Dagon compensates for everything, and the gorgeous colouring of temple and lake, of earth and sky—here at last was the Oriental splendour of romance—rivets the attention of the newcomer. What it is all like during the south-west monsoon I do not know, but I imagine that the sunshine is all in all to Lower Burma. During the rains the dripping black skies must smudge the whole landscape with dreary greyness in spite of the vivid green vegetation springing to renewed life.

At last, my business completed, I entrained for Bhamo nominally three days' journey by rail and boat, and having a few hours to wait at Mandalay, I took the opportunity of visiting some of the sights in the ancient capital, a city of shops and temples. Thebaw's palace, now Fort Dufferin, to this day presents a crude but despoiled magnificence, mirrors and throneless daïses being the only conspicuous articles of furniture. After inspecting these and other glories of Mandalay in a sufficiently lethargic manner, for it was the hottest day I can remember, I returned to the station in time to catch my train.

Then northwards once more, past lovely meres where the wild-fowl wheeled in hundreds before settling down to rest, till the sun went down in a fog of crimson behind the purple hills, and we sped on into the darkness of another night. Early on the following morning we changed into the local train bound for Katha, on the Irrawaddy; and there we found awaiting us the steamboat which was to complete this tiresome journey to Bhamo.

There was little water in the river now, the spring rise not having commenced, but the fact that we ran aground in the middle of the afternoon and remained there till nine o'clock next morning, when we were pulled off, incommoded us not in the least; for it was all part of the journey and quite delightful after two nights in the train.

Late on the following afternoon we saw the white houses of Bhamo show up over the trees which fringed the river bank, and presently we tied up a couple of miles

below that curious little village of many vicissitudes. Nearer we could not get, and the journey was completed overland in a gharry. Having been in turn Chinese, Burmese, and British, Bhamo could no doubt tell some strange stories of frontier fights, raids, and other incidents of its chequered career. Cooper, the great Chinese traveller, was murdered here, and it was from Bhamo that the ill-fated Margary started on his last journey. In addition to the British authorities, civil and military, the polyglot population of Bhamo now includes Burmans, Chinamen, Shans, Kachins, Chittagonians and other peoples from India, while specimens of most of the frontier tribes are occasionally to be seen there, and a large volume of trade still passes through the little border town in spite of the French railway to Yunnanfu. At this time it was probably more lively than usual, on account of the friction on the Burma-Yunnan frontier further north.

I spent five days in Bhamo, chiefly waiting for some of my luggage which the railway company had failed to account for satisfactorily, and the only civil authority with whom I had dealings was by no means encouraging and from start to finish poured cold water on my proposed journey. My preparations, however, being as far as possible complete, I decided to delay no longer in Bhamo, but to cross the frontier at once. I had obtained the services of a civilised Kachin to minister to my needs until I could engage Chinese servants to go with me the whole journey, but at the last minute his wife put her foot down (even Kachin women can assert themselves in a crisis) and refused to et him come. I was therefore abandoned to the tender mercies of a somewhat unlovely looking lad of doubtful but decidedly mixed parentage and little experience, who nevertheless served me faithfully as far as T'eng-yueh.

What delightful fellows the Kachins are! I was quite distressed at parting with my tribesman. Clean, neatly dressed, and debonair, he stood waiting motionless behind my chair or moved noiselessly round the bungalow as a waiter moves round a first-class London club.

On February 26 the mules were loaded and headed towards the distant dancing hills; an hour later I too mounted, and turning my back on sun-scorched Bhamo,

cantered slowly down the long white road that leads to China.

The initial stage out of Bhamo is only nine miles, and it was undoubtedly this fact alone which caused me to feel extraordinarily lonely on the first evening of my journey. Arriving very early in the afternoon there was of course nothing to do but to take out a gun and look round for game, but, do what I would, there was no getting away from the sense of utter desolation which seemed to crush me. Even the mild excitement of putting up a barking deer amongst the reeds of the river failed to alleviate the depression and after dinner I was only too glad to crawl into bed and, weary in spirit, court oblivion in sleep. Never again did the sense of paralyzing isolation come so vividly upon me as on that first night, when all the trials that awaited me seemed to take shape and rise in arms to mock my ignorance and feebleness.

The scenery as the plains of the Irrawaddy valley are left behind and the road gradually ascends the mountain side to traverse the gorge of the Taping river, grows more and more picturesque, and the booming of the torrent, soon a thousand feet below us, alternately dies away and swells up louder and louder as the road sweeps round the gullies. Finally we catch a glimpse of it foaming over the rocks, and then it quickly dies out of sight and sound once more, till only the tinkle of our gongs echoes through the slumbering forest. The mules, with the natural cussedness of the breed, trudge stubbornly along on the extreme edge of the precipice, though the road is, as a matter of fact, respectably broad here. It takes a little time to get accustomed to the idea of riding along with one leg hanging over the edge of a precipice, whence a sheer drop would land one on the tree-tops hundreds of feet below.

On the fourth day we crossed the bridge which marks the frontier between two Empires. To us in our little island, a frontier sounds a more or less nebulous quantity, something drawn rather whimsically on maps, and a chronic source of petty international jealousies as difficult to define as the boundary line which gives rise to them. But this elusive idea becomes almost a physical reality when one crosses the frontier of a British possession overseas,

thus bringing to a focus, as it were, the days which are past and all that lies before one in the new world. Especially is this the case on the return journey, when the hardships are over. Never shall I forget the thrill of joy which quickened me when I crossed the Yunnan-Burma frontier on January 1, nearly a year later, and looked back down the vista of months spent far from our heritage in the East. It was not that the future seemed much brighter than the past, for never had I enjoyed myself more; not that I found the efforts of a Public Works Department—erect telegraph poles and taut wires, reliable bridges, mile posts, and rest-houses provided by a paternal government—filling a long-felt want; but simply that the act of crossing our own frontier again, with all that that frontier stood for, made my heart throb a little more quickly.

A few miles farther I was surprised to see an Englishman sitting in the doorway of a hut on the mountain side, smoking a pipe, and closely watching some fifty coolies

who were busily engaged in mending the road.

I of course stopped for a chat and soon discovered that my companion was a keen naturalist, years of lonely watching while engaged on such work as this having made him extraordinarily observant, and quick to detect the slightest movement. Mr Oliver, for such was his name, asked me if I had seen any monkeys, and on my replying in the

negative, he merely said: "Then watch that tree."

I looked down the mountain slope in the direction indicated to a strapping forest giant that spread aloft a great canopy of branches hanging above the road, and waited. One minute, two minutes; not a leaf stirred; the forest was silent and seemingly deserted; not even the tinkle of a stream disturbed the profound quiet. And then suddenly, as though a breath of air had sighed over the jungle, a shiver seemed to pass through the branches of the tree, and almost immediately a brown shadow appeared out of the foliage, ran along a branch which swayed dizzily, and crouched; he was followed by another, and another, and yet others, now plainly visible, and still the branch swayed rhythmically as it became more and more depressed. "Phayre's leaf-eating monkey" (Semnopithecus Phayrei), said my companion shortly; "watch them travel from tree to tree."

At that moment the first monkey leapt; there was a splash of foliage in the tree below, the branch, lightened of a portion of its load, recoiled, and as it came down again the second monkey sprang into the air, hands and feet neatly gathered together. And so they went on, the monkeys leaping one by one from the branch end as it swung up and down, till there was but one left, the branch by this time see-sawing to within a short distance of the goal. Down went the last of them, tail streaming out behind, and away into the jungle after his companions, who had by this time swung themselves out of sight.

But it was now time for me to move on in pursuit of my caravan, and leaving the naturalist to superintend his coolie gangs, I went my way, eyes very wide open, trying

to see more monkeys.

No event worth recording took place till the fifth night. when the harmony of the evening was temporarily interrupted owing to the exceedingly bellicose attitude of the innkeepers at Chiu-cheng who, with unusual singleness of purpose, one and all refused to admit me. Eventually I was driven to seek shelter beneath the roof of the village school house, and can testify that here they look upon education with an indulgent eye, since the fact that I might annex endless school books did not weigh heavily with them in comparison with the fact that they did not desire my presence within their homes. It occurred to me that I was now beginning to feel the full force of Chinese displeasure over the Pien-ma incident on the frontier, but subsequent events caused me to modify this view considerably.

By this time we had left the river gorge and the teak forests behind us, and down in the open valley, where the Taping flows between extraordinarily bare treeless hills, we had rain, and the road rapidly resolved itself into a quagmire, which the peasants were diligently adding to by dredging their rice fields and dressing the track with the

semi-liquid slime.

It is but eight mule stages from Bhamo to T'eng-yueh, and the road is sufficiently well known to require no detailed description here; but I was destined to meet with a small mishap on the eighth day when, starting early in

the morning and leaving the mules to follow at leisure, I dashed off alone and lost the way. However, after following devious paths somewhere south of the main packroad, I ultimately reached the city late in the afternoon, though not before my mule had thrown me three times, and I was thoroughly hot and exasperated. Curiously enough, though starting on the right road at the other end, I lost my way again on this very same stage from T'engyueh ten months later, finding yet a third route with considerable success—of a sort; so that I have still to discover the proper road over this section.

Arrived at the city, I marched straight into the Consulate and surprised almost the entire European population of six having tea with Consul Rose, who, in spite of my dishevelled appearance, gave me a very warm welcome.

While it is undoubtedly true that I had come into Yunnan during a period of stress, the continued forays over the frontier into the Kachin country of Upper Burma having led to a British expedition in that direction, things were not so hopeless as the Deputy Commissioner in Bhamo had painted them. But in any case I now had the Consul at my back, and a short chat with him was enough to dispel any suspicion of gloom which might have tended to come over me when I reviewed the prospects of success. Mr Rose suggested A-tun-tsi as likely to prove an excellent centre for my work, promising that if I found any difficulty in getting there, he would take the necessary steps on my behalf. The Taotai, indeed, was an altogether wretched person, anti-foreign by nature and furious with the British on account of the frontier trouble; but his position between the devil and the deep sea was by no means an enviable one, for Mr Rose had already brought pressure to bear on him owing to a local boycott of British goods. The consequence of this, as he informed the Consul with a wry smile, was that people from all over the province had written to him, cursing him for showing favour to the British, and no doubt he would have liked to stop me from going further into Yunnan. Realising that the futility of such an action would have been made abundantly clear to him, however, he took a safe line and gave me permission to go to Lichiang-fu, questioning the Consul closely as to what I was doing. No mention was made of A-tun-tsi, for it is a safe thing in China not to ask too much of any man, but to go from one to the other, approaching the more friendly officials and ignoring others according to circumstances. To the Taotai at T'eng-yueh, A-tun-tsi was probably a savage place where people were engaged in cutting each others' throats and a European would infallibly be killed, whereas to the official at Wei-hsi it was the obvious place to make for. Once in Lichiang I was quite beyond the control of the Taotai, though not out of reach of the Consul, so that this concession was perfectly satisfactory as far as it went, though I had no

intention of going to Lichiang.

I spent twelve days in T'eng-yueh, waiting for my baggage, as the guest first of Mr Rose, then of Mr Howell, Commissioner of Customs, and delightful days they were scampers over the grave-strewn downs on the spirited little Yunnan ponies, snipe shooting, and occasionally a game of rounders with the 'boys,' cooks, gardeners, and other members of the several households. Those games of rounders in a little dell surrounded by the necropolitan hills were great fun, for the Chinese were as keen as schoolboys on the game, many of them after a little practice showing surprising skill. But it was a little disconcerting in the middle of an exciting international match when seven o'clock came and the ranks of both sides were suddenly decimated by the defection of the cooks, and the cooks' boys, and the cooks' boys' helps, who all rushed frantically away to prepare dinner.

At this time there was a little flutter of excitement amongst the half-dozen Europeans at T'eng-yueh, 'owing to the forthcoming marriage of the 'General's' daughter. The 'General' was a man who had been sent to pacify the T'eng-yueh district during the great Mohammedan rebellion fifty years before, and had found it so pleasant that he had stayed there ever since. He was a great favourite with the Englishmen, who were amongst those who sent wedding presents, and it is sad to recall that he was one of the first victims of the rebellion seven months later. According to current gossip the sponsor for his daughter's worldly goods was only accepting one thing in four, a course which while

allowing plenty of latitude to his English friends now busy racking their brains to find acceptable gifts, also implied that the old man enjoyed exercising his prerogative of choice. The Consul came out strongly with a bottle of scent, a box of Vinolia soap, and a silk handkerchief. The fourth item was rather a puzzle, but not to be daunted a bright idea finally came to him, and having filched a nice blanket with pretty blue and red stripes from his bed, he despatched it on a tray with the other articles; then, remorse succeeding, he spent the afternoon in an agony of apprehension lest the old man should choose the blanket, and he be compelled to freeze every night till he could get another one up from Bhamo. But this was as nothing compared with the horror which presently possessed him. With a view to enhanced effect the Consul had covered over the things on the tray with his best tea-cloth, and no sooner were the wedding presents under way than an appalling thought occurred to him. Suppose the old man, instead of whisking off the table-cloth to gaze with rapt eyes on the treasures beneath, as was expected of him-suppose that his gaze should be arrested before the curtain went up, so to speak, and that with nice discrimination he should choose the tea-cloth itself before he had a chance of falling in love with the scent or the soap! The Consul groaned at the bare possibility; it was just the sort of tactless thing a retired General might be expected to do.

However, the old man rose grandly to the occasion, eschewed the table-cloth and the blanket, and chose the silk handkerchief. The Consul slept warmly that night, we spread the tea-cloth again next day, and all came back from the wedding feast, which was a sort of high tea lasting

from 5 p.m. till 9 p.m., looking pale but satisfied.

On March 15th my missing baggage came up from Bhamo and on the 18th I started eastwards, having in the meantime procured the services of a Minchia cook, Hoshing by name, who had had some previous experience with Europeans.

Sorry as I was to say good-bye to my friends in T'engyueh, who had done everything to give me a real good time, I nevertheless felt in the best of spirits at the prospect of leaving. The sky was turquoise blue, and the snow which flecked the high peaks of the black ridge between the Shweli and Salween rivers glittered in the sunshine. The rolling hills of the plateau still looked bare and brown in spite of early spring rains, but riding slowly over them, one found brilliant gentians peeping up from the grass, purple orchids and white dog-roses in the lanes, hedges of scarlet *Cydonia japonica* broken here and there by masses of pink peach-blossom, and everywhere green leaves unfurling. In short, a joyous note of spring was already in copse and spinney when I finally set out on my journey.

CHAPTER II

ON THE PLATEAU OF YUNNAN

The same incidents with only a background of varying details fall to the lot of most travellers in the interior of China, and I recall nothing very remarkable during the fourteen days which elapsed between leaving T'eng-yueh and arriving at Tali-fu. The Ambassadors' Road, as it is called, has been well described many times, though it is interesting to compare one description with another and to note how very different the same journey may appear to people whose interests in life are more or less different.

As for me, I have an eye for plants, and take more than a passing interest in men and things; and to my mind the high plateaux between the deeply-scoured, trenchlike valleys, now blazing with scarlet rhododendrons and pink camellias, afforded such charming landscapes that I was almost oblivious of everything else.

After the mid-day halt, I would leave the men to load

After the mid-day halt, I would leave the men to load the animals, and taking my gun, turn aside and wander alone amongst the park-like undulating hills, finding here sheets of mauve primulas blooming on emerald grassy slopes, dog-roses yellow and white, pale-blue irises, and other delightful flowers. Flocks of green parrots flashed screeching overhead, seeking the red berries of a species of mistletoe that grew on the pine trees; gorgeous little fly-catchers flitted timidly from bush to bush; and sometimes I would put up an Amherst's pheasant, perhaps the most magnificent of the tribe, with its handsome tail and rainbow neck. Down by the stream one might generally find a David's squirrel frisking amongst the rocks, but I saw no other mammals, nor would one expect to by day.

At the insignificant village of P'u-p'iao quite a disagreeable incident interrupted the monotony of the journey, for the villagers exhibited the curiosity of impudence to such a degree while I was putting up my tent, that I had a row with one of them.

Meanwhile quite a crowd had collected to see the fracas, and it says much for the good sense and peacefulness of the Yunnanese that they did not take sides. Possibly a few, a very few, thought the man deserved what he got; still fewer might have been really afraid of a foreigner; but undoubtedly the vast majority were supremely indifferent—it was none of their business.

In the night my tent was robbed. At the head of my bed stood a small table on which was a thermos flask full of hot tea, to be taken first thing in the morning while dressing, and a towel; I had left the front of the tent open for it was a warm night, and as I lay in bed I was thus able to watch the moon rise over the ebony range of mountains to the east. Next morning the table was bare; my thermos flask and towel were gone. Whoever the thief was, he had simply put his arm through the tent opening and taken what he could reach without any trouble or noise. Suspicion pointed strongly to my friends of the previous afternoon, for it was unlikely that a casual tramp had come along and walked off with the things-his approach would be heralded by the barking of the village dogs; besides, a beggar could not go about in China with a towel over one arm and a thermos flask under the other without attracting considerable attention.

It was all very annoying. The towel did not matter so much, for I had others, but the thermos flask being one of those small luxuries which add enormously to one's comfort on such a journey was a serious loss; nor was that all, for it had been a parting present to me from my boys at the Shanghai Public School, and I much resented losing it. However, nothing could be done till we reached Yung-ch'ang that same evening, when having made myself respectable, I rode round to see the official, preceded by Ho-shing bearing my card and passport. Having ridden through the first two courtyards of the Yamen I dismounted before the closed inner gates and waited, while

retainers seemed to spring up on every hand from the very paving stones. A few minutes later somebody called out in a loud voice that the great man was ready, the gates were flung open, and I marched across the inner court and up the steps to where the mandarin, a kindly-looking gravefaced man with delicate hands and long moustaches, stood waiting to receive me; I bowed low to him, and acknowledging the salutation he ushered me into a small room, plainly furnished in excellent taste if not scrupulously clean. In the centre of the apartment was a round table covered with heavy red cloth, and at the far end a low daïs with two cushioned seats upholstered in similar fashion. against the side walls in severe symmetry were two small square tables, in some dark varnished wood, flanked by chairs to match, all rather gawky, stiff, and uncomfortable; and the walls themselves were hung with long scrolls, some bearing crude sketches of scenery, others displaying proverbs or quotations from the classics. The trellised window frames were covered with tough translucent paper, letting in plenty of light for ordinary purposes, besides plenty of air. That was all-only the floor was of rough boards, neither varnished nor carpeted, very dusty and bearing signs in the shape of burnt matches, nut-shells, cigarette ends and numerous expectorations, of previous visitors. It was a typical guest room of a native Yamen. be seated "said the Prefect motioning me to the left-hand seat on the daïs-the seat of honour, and himself taking the right hand, while Ho-shing sank into one of the seats of dishonour and discomfort against the wall lower down the room, and the retainers stood in an expectant knot round the door. Ho-shing then explained the object of my visit, and after the Prefect had asked a few questions, I lifted the cup of tea which had been brought me in token of departure, rose, and took leave.

The only practical result of the interview was that I had to spend a day in Yung-ch'ang while two soldiers returned to P'u-p'iao to recover my lost property; and needless to say they returned the same evening empty-handed.

It is the misfortune of China that the innocent frequently suffer with the guilty, since it is the crime, and not necessarily the criminal that is punished. While therefore it is probable that retribution of a sort did fall, as I had prophesied, on the wretched village of P'u-p'iao, it is certain that I did not gain by the transaction, and we may surmise that the soldiers, unwilling to take back a negative report to the mandarin unless the villagers made it well worth their while, reaped the only benefit.

Next day I found myself furnished willy-nilly with three 'braves' as escort, though they were armed with nothing more formidable than a fan and a water-pipe between them. These fellows as a rule strolled comfortably along in the rear, yelling officiously whenever we met other mules, and thoroughly dislocating the traffic, though their avowed

object was to clear the road for me.

The plateau of Yunnan is scarred from north to south by deep trench-like valleys, at the bottom of which flow the Shweli, Salween, Mekong, and other less known rivers, all crossed by means of chain suspension bridges which have been described by previous travellers on this road. The astonishing difference between the comparatively broad forested Salween valley, and the narrow rift, its stark cliffs almost completely devoid of vegetation, through which the Mekong flows, is only a foretaste of what is to come later in the north.

After the Mekong came the Shun-pi river, and drenching rain for two days. As we climbed up into the mountains again, here of red and green porphyry, it was interesting to note how the gullies where the torrents had their source, instead of contracting as the streams grew smaller, opened out more and more, their funnel-like mouths choked with débris, while great fans of rough-hewn rock had been flung out athwart and around the now puny stream. This was good evidence of the furious summer rains which descend upon the mountain summits, sweeping everything before them.

The alders and birches were bursting into leaf now, and there were new blossoms on the road—barberry bushes with tall pyramids of yellow flowers (*Berberis nepalensis*), and deliciously scented white jasmine. Sometimes we met children carrying balls of these delightful jasmine flowers cut off short and tied up in this way, so that each ball dangled from a thread, a solid sphere of scented

flowers, and the muleteers bought them to twist round, their buttons, or decorate their hair.

At the village of Yang-pi we crossed a fair-sized river by the fifth and last chain bridge on this road. There must be quite a large number of these remarkable structures spanning the smaller rivers of Western Yunnan—I crossed two over the Shweli alone, but of their history I know nothing, though they have doubtless been in use from very ancient times.

Continuing down the Yang-pi river next day, we saw at last the snow-capped peaks of the high range over-hanging Tali-fu. After the capitulation of Tali at the close of the Mohammedan rebellion sixty years ago, many fugitives from the massacre tried to make their way from the rivers of blood which flowed in the doomed city across the white snows of these jagged spires, but the majority perished miserably of cold and hunger before a practicable route down to Yang-pi was discovered.

In the afternoon, while scrambling about by the Yang-pi river, I came across a remarkable bridge of twisted lianas, like those built by the Kachins and other jungle tribes. It was really a suspension bridge, the two main liana cables being fastened to stout bamboo poles on either bank and supporting a shallow hammock made of similar lianas interlaced in skeleton fashion, so flimsy that a single narrow path of six-inch planks had been laid along the middle line to mark the fairway. I cannot imagine a more unstable bridge worthy of the name. Not only did it sag at least six feet in the middle-it was barely thirty-five yards acrossbut the least breath of air set the entire structure swaying in the most sickening fashion, and what was worse, no sooner did one set foot on the planking than the hammock began to wriggle beneath one's tread, partly this way, partly that, so flexible was it. The only way to negotiate this bridge in safety, and not tumble over the side or fall through the basket-work, was to step gingerly along the line of planks sliding one foot carefully in front of the other all the time, while striving to maintain a good balance, in spite of the river raging over the rocks thirty feet below, the roar of which filled the air.

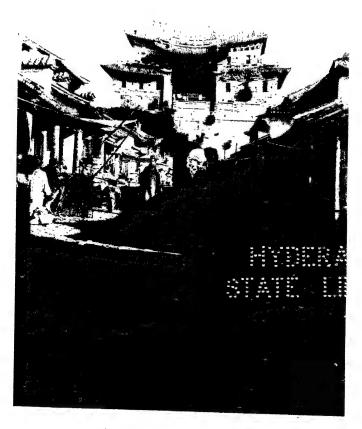
Presently three women, each bearing a heavy load,

came down the river bank and crossed one at a time whereupon I was filled with ambition to walk on the crazy bridge myself, and promptly essayed the journey, though before I was half-way across, I repented of my rashness. I did not dare turn round, however, so I had to go through with it, though I felt more like going down on all fours and crawling than standing upright. I wished there was a handrail to hold on to, and that the bridge would only stay still a minute! The worst of it was that I had to return!

On March 31, we reached Tali-fu, and there being no mules immediately available, we stayed there a week. It was a little tedious, but it afforded an opportunity of seeing the beautifully situated city under varying moods of sunshine and storm—black billows of cloud surging over the snow-tipped peaks to the west, the great blue lake lying like a sheet of glass in the sunshine, or sullen purple as the sky darkened and the wind sent foam-crested waves rocking up the beach; the mountains across the water, golden-yellow and red in the morning, crimsoning as the sun went down.

A few miles from the city is a fine temple built over a boulder probably rolled down from the mountains above, though local legend accounts for its origin on the narrow plain in a much less prosaic manner. I do not know the complete story, but Kwan-nin, the Goddess of Mercy, was apparently responsible for bringing it along and dumping it down here, wherefore it is not surprising that, in the old religious days, a temple should have been built on the spot to commemorate such a miraculous deed. A picturesque shrine, on which is inscribed the whole story, forms a canopy over the boulder within the temple court, and several cypress trees add a touch of sadness to the old neglected building.

One day I walked on the city wall, where I met a smartly dressed Chinaman carrying a pet bird in a cage which he had brought out to take the air, as the Chinese are wont to do; and to my great surprise this Celestial addressed me in French, pronounced with a perfect Parisian accent. Recovering from my momentary amazement I was about to reply when I suddenly discovered that I did not



Street and Gateway, Tali-fu

know one word of French, or at least I could not put my tongue to it! It is very curious how one may grope for the simplest words in a language never thoroughly mastered in the past when one is learning a second language and hearing it spoken daily. It was annoying to think that I could have answered his questions in Chinese, but not in French; while on the other hand had I answered in Chinese I should have been still further humiliated when he spoke in his own tongue. Certainly the greatest difficulty in acquiring a language is to have the words instantaneously ready for use, and this can be accomplished only after long practice amongst the natives, never from books.

At last I resurrected a few half-dead words and attempted a remark, but it was a deplorable failure and he corrected me with a faultless accent. Never had I felt more ignorant of French! And then "Vous êtes Anglais! Je ne parle pas Anglais"! he said apologetically, shaking his head, but I did not believe him and kept quiet. might have corrected my English too had I spoken in a

hurry.

This man was a Catholic and had been taught French by the priest in Tali. I sometimes wish our own missionaries would take the trouble to teach their evangelists English.

At Tali I obtained the services of two more men, Kin and Sung, Chinese both of them, who were destined to follow my fortunes for the rest of the year, Kin in particular doing excellent service. On April 7 the mules were to hand, and we started off again, journeying northwards.

CHAPTER III

ON THE LI-TI-P'ING

NORTH of Tali are bare rounded hills of red earth, and richly cultivated plains tucked in amongst the mountains where, mile on mile, wave fields of kidney-bean, wheat, and blue-flowered flax.

Sometimes we would meet strings of women carrying loads of salt, cotton, beans, or rice to the local market and driving mules laden with planks and firewood. Curiously enough these women supported the loads on their backs by means of a strap passing round the forehead, after the manner of jungle tribes and dwarf races, thus walking with bent backs and contracted chest; and certainly, except for their clothes, the people about here had nothing Chinese in their appearance, being mostly Minchia with a very pronounced type of countenance.

One evening we came upon an isolated limestone hill, curiously sculptured into holes and caves, and from its base issued two very hot springs smelling strongly of sulphurous gases. Such springs are abundant in Western China at the foot of every great mountain range. On the fourth day after leaving Tali we reached Chien-ch'uan, an important market city standing at the head of a small plain, partly occupied by a lake, from which rises the Yang-pi river. Continuing northwards, the undulating valley began to take on more and more the character of plateau country, the ascent being very gradual, albeit we were hemmed in by mountains on either side, those to the east still capped by winter snow. There was little cultivation now, the valley floor being frequently boggy and used chiefly for grazing purposes, while the uncleared mountain slopes

were covered with brushwood below and with pine forests

higher up.

Abruptly came the head of the pass, and the narrow plateau seemed quite suddenly to drop away into a big blue valley, in the depths of which, down beyond the forests, lay hidden the Yang-tze, or as it is called locally, the Kin-sha, the famous River of Golden Sand. Far beyond there towered into the now cloudless sky the Lichiang range—a magnificent snow-clad group of mountains which have barred the way of the river and thrust it aside, thus causing it to sweep round in a vast bend to the north, and return almost on itself in a narrow loop which adds hundreds of miles to the length of the Yang-tze, before it finally sets out on its long journey to the China coast. Up and up towered those glittering pinnacles of ice and snow, flashing in the sunlight till they melted away into the infinite blue. It was a glorious sight.

Here at the very summit of the pass, over 8000 feet above sea-level, a beautiful little lake nestled close under the high wooded cliffs of the eastern ridge, owing its origin to an alluvial cone which had swept across the

valley lower down and dammed back the water.

This watershed separates the streams flowing directly to the Kin-sha from those flowing to the Yang-pi river, itself a tributary of the Mekong. Not far to the north, the three great rivers, the Salween, Mekong, and Yang-tze, flow in their parallel gutters. The descent to the deep-lying Kin-sha was extremely precipitous, the valleys on this side having been torn out of the mountains by furious and sudden rains. However, it was not far to the village of Shih-kow, situated by the river, and here we halted for lunch, continuing in the afternoon to San-kow.

The Yang-tze or Kin-sha at this point, 2500 miles from its mouth, averages perhaps a hundred yards from bank to bank, and though at this season of low water the stream is much subdivided by islands of sand and shingle, it runs with a strong current. However, it was already the second week in April, and the snows had begun to melt in the far north, so that in spite of the sunshine the crystal water was bitterly cold, as I had good reason to know; for having shot a Brahminy duck which had settled down

on an island, I was compelled to strip off my clothes and swim across a narrow backwater in order to secure my meal. When summer comes with its continuous drenching rain on the Tibetan plateau, a vast brown flood of water rages down here, filling the broad channel from bank to bank, submerging the islands, and sweeping everything before it. Then, as the fine autumn weather sets in and the iron frosts lock up the mountain torrents again, the water falls gradually, growing clearer and bluer, the duck return to the islands, and the gold washers come back to their re-sorted gravel pits. It is only another phase of the far-reaching monsoon.

The closely investing mountains rise several thousands of feet above the river, but the valley is sufficiently broad to allow of considerable cultivation on the right bank, where a platform averaging a quarter of a mile in breadth separates the river bank from the mountain foot. No such facilities exist on the left bank, however, and villages on that side are practically confined to the wide-mouthed breaches opened out by tributary torrents. At this season there are no rapids to speak of, but the swift current makes the river useless for navigation except locally, where ferries ply across, and fishing is carried on from large scows.

As to the people who inhabit this stretch of the Kin-sha, they seem to be mainly a cross between Chinese and Tibetan, with a considerable admixture of Moso blood from the immediate north and Minchia blood from the Mekong valley to the west. The women have peculiarly broad faces, which give them a merry, good-humoured expression. They are fond of wearing small ear-rings consisting of a silver ring, like a broad finger ring, from which is suspended a jade disc, pierced in the centre;

otherwise they affect little ornamentation,

From day to day we passed groups of people washing

for gold, the method of procedure being as follows:

The gravel at some chosen spot exposed during the dry season is shovelled into a basket, which is rocked by hand on the edge of a long inclined sieve, water being poured in to wash the fine mud through the interstices of the basket, the remaining stones being flung aside. As the mud and water trickle down the sieve, the water drips

through and the yellow mud collects below, whence it is taken to the river side to be rocked in a shallow wooden cradle. The light mud is soon suspended in the water and gradually slopped over the side, leaving at the bottom of the cradle a heavy black sand, in which lie the still heavier flakes of gold. This black sand is cradled more carefully, and finally we have the specks of gold alone glittering in the cradle.

Operations are best carried on by seven or eight persons, one half being engaged in extracting the auriferous sand, which lies usually a few feet below the surface shingle, the other half cradling the sand; but sometimes there are only three or four people to a syndicate, men, women and children being employed indiscriminately, though of course it is not particularly arduous work. The earnings vary considerably, but a hundred and fifty cash (about $7\frac{1}{2}d$.) a day per person seems a fair average.

I have never seen this business carried on north of Pang-tsi-la, though it must be remembered that when I next saw the Kin-sha the water was at summer level. However, near Batang facilities for gold-washing certainly existed, and I believe I am right in saying that it is never undertaken; consequently I am inclined to ascribe a local

origin to the gold.

On the Salween gold-washing seems to be entirely unknown, though I heard of it near the headwaters of the Irrawaddy, and on the Mekong I only once saw a few abandoned diggings; hence there is little ground for supposing that the gold originates from big reefs far up in Tibet, otherwise one would expect to find auriferous sand in the Mekong and Salween. Still I am inclined to think that, in this localised area, gold exists in considerable quantities along the Kin-sha, for even with these primitive appliances the men washed sufficient gold from the mud for me to see in a few minutes.

Nuggets are rarely found, and for obvious reasons, since they must be for the most part at the bottom of the river. Dredging or some more rapid and thorough treatment of the auriferous shingle would doubtless be a profitable undertaking, but it is not likely that innovations of this sort would be viewed with favour by the local families who have, or at all events imagine that they have, vested rights in the river bed.

On April 14 I decided to give the men a day's rest. We had pitched our camp in a delightful grove of trees, just above the river, and the day being fine, Kin and I set out to climb to the summit of the ridge immediately west of us. However, after reaching an altitude of over 10,000 feet progress was stopped by the limestone precipices which crowned the ridge, and finding deep snow still lying in the corries, and no sign of spring as yet, we returned to the warmth of the valley.

On the downward journey we came across some pheasant springes of a kind seen in many parts of the world—a running noose attached to a bent bamboo held down by a catch, which on being released at once flies up

and suspends the struggling bird in the air.

Next day, our last by the Kin-sha, we went on to Chi-tien, a semi-Tibetan village of no importance, passing through groves of Chionanthus trees in full bloom, a glorious sight. They seem fond of the rockiest places down by the river side, and are often to be seen hanging far out over the water.

For the last three days we had been passing a good deal of opium poppy-not solid fields of it such as I had seen in one or two places between T'eng-yueh and Tali, even on the main road, but scattered plants occurring amongst fields of white and mauve peas, which served admirably to mask their presence, and there can be little doubt that these poppies were deliberately sown amongst the peas so that seed might be kept against better times. Under an able and powerful Viceroy Yunnan, like several other provinces of the Empire, had almost rid itself of opium, but before the work was completed, there had been a change in the administration, the present Viceroy being not only a weak ruler, but an opium smoker himself; hence poppy cultivation, though still showing a substantial decrease since the opium edict, had made a considerable advance again during the preceding season. It is hardly fair, however, to compare Yunnan with any other opiumgrowing province, since the conditions are totally dissimilar. The Yunnan plateau is by no means suitable for all crops,

cotton in particular doing badly, and there can be little doubt that the poppy is more suited to the climate than almost any other economic plant. Consequently the greater part of the opium had in the past been sold to Cantonese and Hunnanese merchants, cotton cloth from Ssu-chuan and Kwei-chow being bought with the silver so obtained. The reckless extermination of the poppy had therefore involved the province in serious financial difficulties, the shortage of silver and the fallow fields—for it was then too late to plant anything else—creating much misery.

Again, in the deep valleys of the plateau malaria is rife during the rainy season, and the Shans and other tribes who inhabit these valleys use opium as a prophylactic; for it must not be forgotten that, except along the main roads, there are very few Chinese in Western Yunnan, and though many of the tribes have been more or less absorbed into the dominant race, such fundamental customs as the eating of opium to insure immunity against fever are not easily shaken. It was so used in the Cambridgeshire fens until quite recently. Western Yunnan probably received opium from India long before the poppy was grown in China.

Finally, opium being extremely light, and at the same time acceptable to almost everybody, it forms a convenient medium for exchange in a sparsely populated country of immense distances and few roads, and is commonly used as such in place of silver. Bearing all these things in mind then, it will readily be admitted that the Yunnanese had a grievance when the extermination of a plant which meant clothes and medicine to them was attempted. How the present revolution will affect poppy cultivation in the more populous and accessible provinces it is difficult to say, but it is a foregone conclusion that with the setting up of a powerful local authority, there will be another large increase in the cultivation of opium in Yunnan this year.

The journey westwards from the Kin-sha over the Mekong watershed to Wei-hsi-t'ing, whither we were now bound, takes two days under ordinary circumstances. Leaving Chi-tien, we ascended a small valley, cultivated below, but presently forested, the stream being in many places jammed with logs which had been cut in the forests above and slid down the steep slopes to make the best of

their way to Chi-tien. On the second day a stiff climb in a heavy snow-storm brought us out of the forest on to the Li-ti-p'ing, as the summit of the watershed is called—a desolate plateau of grass-land, forest, and bog. Streams of discoloured water trickled sluggishly down the grassy hollows, but the hill-tops were covered with fir forests, where patches of snow still lay snugly hidden. A raw wind swept over the pass and down the shallow valleys.

It looked an ideal spot for pheasants, and leaving the caravan to continue across open country, Kin and I climbed the slopes to the edge of a forest patch. Shortly afterwards Kin complained of feeling unwell, so taking my gun I told him to rejoin the caravan while I scrambled about by myself, and presently they were all hidden from view. For about an hour I wandered from one patch of forest to another marvelling at the reckless slaughter going on in the plant world around me. The damp and darkness of the fir forest with its bamboo undergrowth was a wonderful breeding-ground for moss, while coils and coils of pale green unhealthy-looking lichen flung insidious tentacles round every tree, slowly choking the life out of Nothing was more sad on that dismal plateau than to see the struggle which was raging dumbly between host and parasite—the one immense, stern, and upright, the other insignificant, crawling, deadly. On the edge of the forest great bare masts, shrouded with this gnawing death, which hung in tattered festoons from the stumps of branches, rose grimly into the sky. Inside the forest huge trunks had come crashing down through the bamboo brake, and lay encased in moss, sleeping their last long sleep.

After skirting several forested hill-tops I returned to the open valley, some distance below the pass, picked up a trail, and wandered rather aimlessly along by the growing stream of peaty water. The trail itself was good, though I was rather surprised to see no mule tracks, and to find no trace of either animals or escort after an hour's walking, but it scarcely occurred to me yet that I was on the wrong road.

And now came an incident which for the first time set me pondering. Looking back up the shallow valley towards the pass we had crossed, I saw a Tibetan caravan coming towards me, perhaps half a mile distant, but when I looked again a few minutes later, it had disappeared, and I never

saw it again.

By this time I had begun to realise that I was not on the main road, for where was my caravan, and why had not the men halted for lunch? It was already past mid-day and I had parted from them about ten o'clock. To crown all, the path came to an end and, unwilling to retrace my

steps, I decided on a new and fatal plan of action.

I have already stated that we had crossed a pass, and I had good reason to believe that streams flowing down this side reached Wei-hsi; therefore, I argued, by following one of the streams I should eventually arrive at the city, though it was only to be expected that it would take considerably longer. Why did I not retrace my steps up the valley to the point where I had parted from the caravan, and carefully follow the mule tracks? Scores of caravans use this road, and had I thought for a moment, I should never have gone wrong at all. I think it was partly from a love of plunging into anything which offered a certain amount of novelty, and partly from sheer laziness. I did not foresee any insurmountable difficulties, and though it was abundantly clear that I was some distance from the main road, I had, remembering the map, a hazy idea of rejoining it by a circuitous route without the trouble of going over the old ground again. From the hill-top where the path came to an end I turned away down the slope, and a minute later plunged into the forest in order to reach a big stream as soon as possible, where progress, I thought, might prove easier. However, as I proceeded, it became infinitely more difficult, for as the hill-tops of the plateau country were left behind, the deepening valleys became choked with dense bamboo brake, to the exclusion of everything else.

For two hours I blindly fought my way through this jungle, the bamboos reaching a height of fifteen to twenty feet and growing so thickly that I had to force the stems apart, clambering over an occasional tree-trunk and plunging knee-deep into icy torrents, while the sweat rolled off me. Sometimes I emerged momentarily from the brake, hot and angry, and finding a trail, recklessly followed it till it disappeared, but always I came again to this appalling fence of jungle, which was slowly crushing the strength

out of me. Even the beautiful sight of masses of the blue *Primula sonchifolia* in the dampest parts of the forest, sometimes growing right in the icy water derived from the melting snow, failed to compensate me for this torture, or to rouse my enthusiasm.

About this time a big valley, into which all these countless torrents poured their water, came in sight, and I determined to try and reach it before nightfall. Though the sun was veiled I knew my bearings roughly, having the sense of direction well developed, and the valley in front of me certainly lay east and west.

If the stream flowed westwards, as I supposed, I must soon get down to the city, for by this time I had come some distance south. But if it flowed eastwards?—and a horrible doubt assailed me.

It had been a wearying day, but dusk was now closing in, and with it came the rain. Darkness set in early, for the days are short in this latitude even in summer, and the gloom was intensified by the heavy clouds. Following a path, I climbed one more grassy hill which promised an extensive view from the summit, hoping that at dawn I should be able to make certain of my bearings. But commanding as the position was, the weather showed no signs of improvement, for the soft clinging rain clouds were now settling down all round me. On the edge of the forest I sat down to await the dawn and take stock of things, wondering uneasily if there were any wolves prowling about on such a night. My mackintosh had been ripped to shreds while I was buffeting my way through the brake, but I covered over my head with what remained of it; there was also my gun and one cartridge to be reckoned with, and this I kept handy in case of a wolf. I had no matches, nor could I perhaps in any case have lit a fire on such a night; food I had none, and in addition to feeling very hungry, I was also extremely wet from wading through torrents in order to avoid the brake.

The big valley I had seen in the evening was still some distance away, but I had bright hopes that it would prove the end of my troubles, and decided to push on as soon as it was light enough to see. So I lay down to rest, burying my head under my mackintosh and curling up like a cat to

keep out the cold, while the rain poured steadily down and formed pools beneath me.

I wondered what my men were doing and whether they had reported in the city that I was lost on the plateau. Perhaps soldiers had already started out to look for me—they could easily track me to the end of the path, but after that a regiment might scour these forests without finding any trace of me, for there was nothing to indicate which direction I had taken.

The night seemed very long, but towards morning I dozed several times, and at length when I awoke it was already dawn, a cold grey light gradually diffusing itself over the sullen-looking sky. Clouds enveloped the forested hill-tops and lay in heavy masses in the deep valleys, but the rain had turned to snow which melted as it lay on the ground. Such a cheerless daybreak offered little encouragement to me in my task.

However, I started off at once in order to get warm and shake off the numbing stiffness brought on by the past few hours of inactivity; fortune seemed to smile on me this once, since by keeping the valley in view and heading straight for it so far as the country would allow, I struck a well-worn trail almost immediately. Climbing up and down over the endless hills for nearly three hours, I at last reached a point whence I could look straight down into the big valley, and solve the problem.

The stream flowed eastwards—I was all wrong!

This unfortunate truth had indeed been gradually asserting itself for some time past—the configuration of the mountains scarcely allowed of any other interpretation, though I was loth to admit it to myself; and disgusted beyond measure as I was at the annihilation of my vain hopes, I was not altogether taken aback.

Meanwhile the path had been growing worse instead of better and presently came to an end again at the edge of the forest, a circumstance which greatly simplified matters for it left but one reasonable course of action.

I must either break away again and try a new direction in the hope of striking another path, or find my way back to the starting point before I became more involved than I was already.

Disheartening as the latter course seemed, for I had vivid recollections of my struggles in the brake, it was the only sensible thing to do, and having finally resigned myself to it, I at once started wearily back.

There were a few anemones in flower on the grassy slopes, looking very miserable in the driving snow, besides numerous rhododendrons on the edges of the forest; and I remembered with glee that at the base of each rhododendron corolla was a big drop of honey. However, after sucking a score of flowers without obtaining much nourishment, I started eating the whole thing which, though glutinous and

insipid, was not altogether nasty.

After a weary climb, for I was now beginning to feel despondent, I arrived back at my sleeping ground, and descending to the stream, prepared for the long journey up to the plateau. First I ate a meal of sorrel and any other young leaves I could find, though most of them were either hard and leathery, or soft and covered with woolly hairs; but after drinking my fill of the clear cold water I felt very much better in spite of the fact that the rhododendron corollas had given me a violent pain in the stomach.

My plan was to follow up this stream-the biggest flowing from the direction of the plateau-to its source; but while making every endeavour to keep it in sight, I vowed that, come what might, nothing should tempt me

into the brake again.

Starting along one of the multitude of small paths I had followed on the previous day, I watched it carefully, and though it entailed much climbing up and down the ridge, I noted with satisfaction that it skirted several bamboo forests

I had deliberately plunged into on the way down.

These numerous paths are used by the Lissus, who inhabit the mountains on the east or left bank of the Mekong from Wei-hsi in latitude 27° 10' to latitude 28°, whither they have spread from their preserves on the Upper Salween. They come up to the Li-ti-p'ing in the summer to tend flocks, cut wood for their bows, collect wild honey for food, poison for their arrows, firewood, and other jungle produce, and had I followed down the streams far enough, I should doubtless have come across Lissu huts

One by one the landmarks came back, and I made good progress up the valley. Only one point troubled me. On the previous day I had burst into this valley after some two hours' struggling in the brake, an experience I was not inclined to court a second time. But could I pick up a path which would lead me back to the plateau without retracing my footsteps? Nay, even if I attempted the

brake again, could I retrace my footsteps?

To the latter question the answer was, obviously, no, and therefore the only course was to continue up the stream to its source, leaving out of account the tributaries I had followed through the brake. This scheme at all events promised as well as anything else. It was cruel fate that as I wandered along, laying plans to be observed after I reached my last landmark, I should flush a snow pheasant, the original source of all the trouble, and the only one I saw during my two days' sojourn on the Li-ti-p'ing. Needless to say I did not put up my gun in time to shoot it, but it occurred to me that, as there were several birds about, I might as well shoot something; and in order to make certain of my one remaining cartridge I fired point blank at an unfortunate little finch that was sitting on a bush. When I came to pick him up, I found that the No. 6 shot had not only killed him but very nearly plucked him as well, and with the exception of the feathers, entrails. and beak, I ate him entire. After a short rest I felt much better, and pushed on for the turning point, which I reached much sooner than I had expected, thanks to following a path all the way.

And now occurred a temporary check, for I could find no continuation of the path, and after wading across several streams in an endeavour to follow up the main valley, I

was once more faced by bamboo brake.

Retracing my steps, I struck off into an open grass-land valley which promised an easier route—the presence of grass-land was a welcome hint of the high plateau—and plunging into more or less open fir forest higher up, I crossed a ridge, still bending my steps in what I conceived to be the direction of the pass. It was now, I thought, early afternoon.

After having crossed the ridge, I emerged from the

strip of forest into an open grassy hollow surrounded by woody hills, and there stood an old sheep-pen. I had passed that sheep-pen on the previous day just before the first path came to an end and I plunged into the brake.

I was all right.

In the red mud of the path I could just distinguish my footprints of the previous day, now almost obliterated by the rain; but there were also clearly visible the footprints of two other men which certainly were not there before, probably those of soldiers who had tracked me thus far, and I shouted several times without, however, obtaining

The revulsion of feeling would have been greater but for the fact that I knew it would take me some time to reach the pass from here, and several hours to get thence to Wei-hsi. Nevertheless I set out with a light heart and a feeling as of a great load lifted off my mind, tried a short cut but lost my bearings, returned on my tracks, and at last found myself back on the main road, near the pass. There was no mistaking it this time, for the mule-tracks showed plainly enough that it swung away to the west across the valley I had so persistently followed southwards and eastwards.

A long climb over the plateau, splashing through the most appalling mud and half-melted snow, thoroughly ploughed up by mule traffic, brought me at last to a second pass, and now the forested plateau fell away abruptly below me, and tailed out in high spurs to a broad flat valley.

The rain had ceased, and to cheer me up the sun flashed out from beneath a bank of clouds for a few minutes before sinking down behind a high range just across the valley; and far below, Wei-hsi glistened in the golden light of the setting sun. It is to be noted that the first pass we crossed was that over the main watershed between the Kin-sha and the Mekong river systems; the second and higher pass, on the other hand, separates the waters flowing past Wei-hsi from those which, gathered throughout the length and breadth of the Li-ti-p'ing, flow out at Ka-kat'ang to join the Wei-hsi river fifteen miles below the city. Had I continued down those seemingly endless valleys, :herefore, I must eventually have come out at Ka-ka-t'ang, though it is probable, as already remarked, that I should have come across Lissus before finally emerging from the mountains.

From the pass I descended the extremely precipitous road as rapidly as possible, but though the city had looked so near, it was in reality some distance away, and darkness was coming on apace, so that I soon realised the impossibility of getting in before dark.

Now I could see the lights of the city and hear the howl of a pariah dog; but in the tree-girt ravine, which gradually widened out between the towering spurs as the

valley was approached, it was pitch dark.

Progress became slower; extraordinary hallucinations grew upon me, and I found myself continually halting to step carefully over large boulders which did not exist except in my imagination, while in doing so I blundered clumsily into every obstacle which the path presented, slipped over the bank on one side, and walked into the bushes on the other. Helpless birds fluttered along the ground in front of me, so that I stooped down on more than one occasion to pick one up; strange animals moved in the thickets; every light visible in the city was dancing up and down like a will-o'-the-wisp, and some poplar trees along the sky-line to the right seemed to be swaying violently to and fro as though bending before a gale, yet the night was perfectly still.

Stumbling and tripping, I moved cautiously forward with arms outstretched, weary, but in excellent spirits; stars were winking overhead, and after the cold and wet of the plateau, the air felt warm; also my clothes were dry, a

fact which greatly added to my comfort.

Suddenly the dark outline of a house loomed up in front of me, and at the same moment several dogs began to bark

furiously.

Entering the yard I made my way to the door and rapped loudly, but the dogs had already drawn attention to me and someone was even now approaching. Next moment the door opened, and an old woman stood before me, a flaming pine torch held high above her head as she peered into the night.

"Why it's his Excellency!" she exclaimed in astonish-

ment, and ran back to bring her husband. My fame had

preceded me!

The old man, who was half-blind, presently appeared. and taking me by the hand led me in, and so up a ladder to a large room, where in a few minutes he had a fire blazing: meanwhile his wife brought up hot water, some eggs, and a quilt, while the son, a fine strapping young fellow, set out immediately for the city, a mile away, to inform the official of my safe return and rouse my men.

How shall I describe the kindness with which those humble Lissus took me in and in the most hearty manner put everything they possessed at my disposal? However. I was too tired to eat, and bidding the old man give me one of the soft brown sugar bricks which the Chinese manufacture, I sliced off some parings and ate them; but the sweet matter burned my tongue, and for a day or two it was so badly furred that it pained me to eat anything.

My one desire now was to sleep, and the old man himself having taken off my boots and puttees-the only things I did take off-I wrapped myself in the quilt and lying down on the hard boards beside the fire soon fell into a

deep dreamless slumber.

About nine o'clock I awoke suddenly to find the room full of light and noise. However it was only Kin and Sung who had arrived from camp with food and blankets for me, but I was too weary to move, and bidding them put out the torches after covering me up with extra blankets, I turned over on my hard bed and immediately fell fast asleep again.

On the following morning I awoke early, and after a hearty breakfast rode out to where the men had pitched the tents, on the edge of some rice fields just outside but overlooking the city. It was a glorious morning, delight-

fully warm, and I felt in the best of spirits.

My Lissu friends at first refused to take anything for their hospitality, but later I sent them a present of money which they gratefully accepted; and during the day, as I had anticipated, there arrived back several soldiers who had been sent out by the official to look for me-a kindly act of grace on his part. The soldiers told me that they had followed my tracks to the end of the path, and had

then been at a loss which way to turn; for there was

nothing further to indicate my route.

The official himself sent round a polite message to the effect that he would be pleased to see me, and on the following day I went round to the Yamen accompanied by Ho-shing. On the way I made him coach me in the things I ought to say, and the answers I might expect to receive, though Ho-shing was a difficult person to understand, on account of his vile patois.

The Ting, a middle-aged, ascetic-looking, but rather handsome man, somewhat reserved and cold in manner, greeted me with every mark of politeness, and smiled drily for the first time when I thanked him for sending out soldiers to look for me. He made no trouble about my going on to A-tun-tsi, and indeed wrote out directions to his subordinates that I was to be supplied with an escort of three soldiers and receive every facility on the way, but like all Chinamen, he exaggerated the difficulties of the road ridiculously.

As a parting gift he sent me round a haunch of bacon, a chicken, and some eggs, and not to be outdone in generosity, I retaliated with two cakes of scented Vinolia soap, which I could certainly ill afford. Taking it all round the Ting and I became quite friendly, a circumstance

which later was to stand me in good stead.

CHAPTER IV

UP THE MEKONG VALLEY

WE rested four days at Wei-hsi. It is a small unwalled city with cobbled streets, patches of cultivated ground being freely interspersed with tiled houses of wood or mud bricks; but the pear trees now in full blossom gave a brighter appearance to the shabby temples and mean lanes.

The valley itself is little more than a mile across here, considerably less elsewhere, shut in by the mountains of the Li-ti-p'ing to the east and by a high ridge to the west, clothed below with scrub and pine trees harbouring two or three species of pheasant, and above with fir forests. There is no flat ground anywhere except immediately beside the river, where a small flood-plain dotted with bushes affords opportunities of shooting duck and snipe. Though flowing with a strong current, the stream is of small size, fordable almost anywhere at this season, and spanned by a single wooden bridge of no interest. The gentler slopes of the valley are extensively terraced, rice being the principal crop for the whole of this district. Even the city is built on a slope. Major Davies gives its altitude as 8000 feet, and my aneroid readings agreed very closely with this.

Considering that we were nearing the end of April, the vegetation was not far advanced, certainly not more so than it is in England by the end of the first week of that month, and there was snow on the ridge immediately to the west, probably not more than 2000 feet above the city. The valley itself however is dry, like the Mekong valley below, and the most interesting plant I met with during several







rambles was a crimson-purple Primula (P. vittata) coming into flower in the marshes.

Like all frontier cities, Wei-hsi is a great trading centre, and a motley crowd, amongst whom may be seen sallow-faced Chinamen, fair-skinned Mosos, swarthy Tibetans, and sullen-looking Lissus, throng the main street on a market day.

The surrounding country is inhabited chiefly by the Moso tribe, whose centre of distribution is the strip of land enclosed by the great loop of the Yang-tze already referred to, though they extend as far west as Wei-hsi and up the Mekong valley as far as Tsu-kou. They are most numerous in the neighbourhood of their ancient capital,

now a Chinese prefectural city, Lichiang-fu.

I can imagine nothing more charming, nothing in better taste than a well-dressed Moso girl. She wears a white, or perhaps dark-blue skirt, closely pleated lengthways after the manner of a skirt-dancer's costume, reaching well below the knees; a dark blue blouse tied round the waist; and a head-cloth of a dull red colour, above which is bound the queue, probably adorned with jewels of coarse workmanship, silver set with coral and turquoise, to match the long pendent ear-rings. Nor is it too much to say that many a Moso girl is wonderfully pretty, with a round good-natured face, regular features, a light complexion which is most readily described as sunburnt, and large dreamy eyes, though the general expression is one of considerable animation.

Frequently they bind their ankles with narrow strips of tape, a custom to which it is difficult to assign any reason as it stands. I eventually came to the conclusion that it might be the relic of an ancestral custom, comparable to those rudimentary structures which, of no use now, yet survive in many animals, a sore puzzle to the anatomist, who sees in them a remnant of some previous organ which through disuse has dwindled to a mere cipher of its former complexity, though still perhaps leaving a clue to its history. But if so, what can these ankle bandages, of no practical utility, though ornamental, represent? Probably anklebracelets, such as the Burmans and other peoples from this part of Asia wear to this day. A metal hoop round

the ankle would obviously be inconvenient to an active people like the Moso, who cultivate steep hillsides, and carry heavy loads a long distance to market—always a

woman's job.

The women, as remarked above, adhere loyally to the tribal customs, particularly in the matter of attire, but the men, as is so often the case, have adopted Chinese dress, no doubt largely as a measure of convenience; and all the Mosos one meets with, along the main road at any rate, speak Chinese better than most other tribesmen who profess to do so. This is the case both with men and women, though usually while the men of a tribe can speak Chinese more or less, their women folk cannot. This is particularly

true of the Tibetans in many places.

The Mosos are a medium-sized race, the women being bigger and more healthy-looking than Chinese women; but though sturdy of limb-on the return journey I had several Moso girls as porters, carrying their loads by means of a strap passing round the forehead—their figures were nevertheless trim. They may be of Tibetan origin, as is generally accepted, though the fact is by no means obvious from a superficial acquaintance. Personally I believe them to have come across the mountains from the west, and to be much more closely allied to the Lutzu and Lissu tribes than to the Tibetans; they appear to me to have attained highwater mark in the evolution of an emigrating jungle tribe, though it is well known they have been in their present home for several centuries. On the other hand they possess a written language akin I believe to Tibetan, and to some extent, particularly in the matter of dress and jewellery, resemble the Tibetans of the Pang-tsi-la region, though this may be simply owing to contact in the Yang-tze valley, unless indeed the so-called Tibetans of Pang-tsi-la are really Mosos.

But free and unrestrained in their manners as are the Mosos, taking photographs of them is quite another thing, and they are not easily persuaded to stand up to the camera, at least not in the city under the scoffing eye of the Chinaman. I believe the little minxes know they are good-looking and realised that I was trying to put the fact on record, for with laughing eyes they sedulously avoided

me when I went into the city with my camera, while the children positively ran. Not so the Tibetans however, reckless fellows; they would always face the camera for the sheer adventure of the thing, nudging each other and screaming with laughter, and for a few cash they would even dance to the accompaniment of their squeaky bamboo fiddles.

We left Wei-hsi on April 22, and marching down stream, camped for the night below Ka-ka-t'ang. The hill sides became still more dry and bare as we descended, a good deal of purple shale being exposed. Small bushy oaks, very prone to attack by a curious mistletoe (Viscum articulatum), with pines and rhododendrons, made up the bulk of the flora, and the ride was uninteresting, though the small arched bridges of stone, pointed rather than rounded, which spanned the tributary torrents such as the Ka-ka-t'ang stream, were quaint.

Continuing next day down a narrow path high above the torrent, we caught sight of the Mekong-Salween watershed, still covered with winter snow, framed in the mouth of the gorge, and shortly afterwards we descended to the

Mekong itself.

Hsiao-wei-hsi, reached the same evening, marks practically the southern limit of the rainy belt on the Upper Mekong, south of which we enter upon the dry region, distinguished in turn from the true arid region to the north chiefly by the presence of the 'spear grass' (Stipa sp.) and a few shrubs. But of these three regions into which the Upper Mekong naturally divides itself owing to the peculiar distribution of its rainfall, we must say more later.

The river here flows through a comparatively broad valley flanked by double and triple ranges of mountains, showing signs of a heavier rainfall than prevails to north and south, where the gorges shut in the river again. On the left bank, up which lies the road, cultivation is extensively carried on, rice being by far the most valuable crop; and all the great alluvial fans which have been washed down by the torrents on this side are skilfully terraced. Wheat, tobacco, cotton, beans, peas, buckwheat, 'red pepper' (Capsicum), and several kinds of vegetable are all grown in lesser quantity; and hedges of pomegranate, with

walnut, orange, persimmon, and pear trees, are scattered

down the slopes or give shade in the villages.

I stopped a day at Hsiao-wei-hsi in order to climb the mountain and examine the flora of one of the deep shady gullies which, in comparison with the dry exposed slopes where there is little else besides scrub oak, pines, rhododendrons and a few other Ericaceae, present a rich assortment of trees, ferns, and rock plants. In the gully I found Primula sinensis, Saxifraga sarmentosa, an Epimedium, several Crassulas and numerous orchids, not however in flower, with such woody plants as Hydrangea, Philadelphus ('syringa'), Decaisnea, numerous Caprifoliaceae, Celastraceae, and so on—a totally different and far more varied flora.

A little below Hsiao-wei-hsi we saw for the first time the rope bridges about which we had already heard so much; but as this structure does not attain to its most ingenious form till we reach Tsu-kou, consisting here only of a single two-way rope, instead of two one-way ropes,

I will postpone a description of it for the present.

Soon after we reached K'ang-p'u on the second evening, the Tussu, hearing that I was interested in flowers, sent me round some magnificent pink paeonies, sweetly scented, and a big spray of some orchid—a Dendrobium I think, and later I took a cup of tea with him, and was given some of the juiciest oranges I have ever tasted, besides excellent pomegranates. In the garden behind the little yamen were bushes of pink and yellow roses, paeonies, and orchids in large earthenware pots formally arranged down the path, and beyond, a wilderness of weeds and cabbages. Above the gently-sloping rice-fields, brooding over all, were the dark forested mountains crested right along with winter snow.

The weather had now set in fine, and nothing could have been more delightful than these marches up the Mekong valley, for we took matters fairly easily, making four stages from Hsiao-wei-hsi to Tsu-kou. Sometimes the narrow path was enveloped in the shade of flowering shrubs and walnut trees, the branches breasting us as we rode, the air sweetened by the scent of roses which swept in cascades of yellow flowers over the summits of trees

thirty feet high; sometimes we plunged into a deep limestone gorge, its cliffs festooned with ferns and orchids, our caravan climbing up by rough stone steps which zigzagged backwards and forwards till we were out of ear-shot of the rapids in the river below; sometimes the path was broken altogether by a scree-shoot, which, dangerous as it looked, the mules walked across very calmly, though sending rocks grinding and sliding down through the trees into the river.

In one gorge through which we passed, large pot-holes were visible across the river between winter and summer water marks and yet others still higher up, forming a conspicuous feature of the otherwise smooth bare cliffs which dipped sheer into the river; but on the left or shaded bank dense vegetation prevailed wherever tree, shrub, or rock-plant could secure a foothold. The further north we went, the more rich and varied became the vegetation of the rainy belt, though the paucity of forest trees, except deep down in the gullies, was always conspicuous.

Shales and slates, dipping at very high angles, and often vertical, alternated with limestone, through which the river had cut its way straight downwards; but at one spot, where an enormous rapid had been formed, huge boulders of a dark green volcanic rock, like lava, with large included fragments, lined the shore and were piled in confusion below cliffs of slate.

It is at sunset that the charm of this wonderful valley is displayed at its best, for the sun having dropped out of sight behind the western range still sends shafts of coloured light pulsing down the valley, rose, turquoise, and pale green slowly chasing each other across the sky till darkness sets in and the stars sparkle gloriously. It is long after dawn when the sleeping valley wakens to floods of sunlight again, and the peaks which stand sentinel over it, blotting out the views to north and south, lose the ghastly grey pallor of dimly-lit snow.

On the third day I noticed that one of the muleteers, a Lissu from Hsiao-wei-hsi, was limping badly, and in the evening I looked at his foot, which had been severely cut on a rock; for most of these men go about bare-footed. The sole was protected by a layer of tough horny skin three-eighths of an inch thick, grimed with dirt, and so

hard that I had great difficulty in cutting through it to open up and wash out the wound. After putting on a little iodoform, I bandaged it and next morning sent the man home, for indeed he could scarcely walk. The sequel to this, the first appearance of my medicine chest, was that all the muleteers discovered that there was something wrong with them—not because they wanted to go back, but because they wanted to sample my tabloids. Even Ho-shing joined in the popular demonstration, first asking me to cure his friend (procured from the village at short notice) of asthma, and then informing me dejectedly that he himself suffered from running at the nose. This last was a disorder that nonplussed me, so to uphold my fledgling reputation I laughed it off and told him to go away.

Passing through several fine gorges lined with tall juniper trees we arrived opposite Tsu-kou about five o'clock in the evening of the fourth day and continued a mile up the river bank to the next rope bridge, just below the larger village of Tsu-chung, also across the river, and now we had our first experience of the single-

way rope bridge.

The rope bridge is not properly a bridge at all, though it is a rope, made of twisted bamboo strands, its diameter being barely three-quarters of an inch, so that a single rope, perhaps fifty yards in length, weighs only about twenty pounds. Like many other things which are ingenious, the principle of the rope bridge—for such I must continue to call it—is delightfully simple. The rope is twisted several times round an upright wooden post fixed high up on one side of the river bank, a small platform being cut out to serve as a landing stage, and stretches across the river to another post fixed lower down on the other bank, where there is also a landing platform. Thus it slopes steeply from one bank to the other, though the slope is as a matter of fact nothing like so steep as it appears, the difference of level between the two posts probably never exceeding twenty feet, while the river may be thirty yards across.

On the top of the rope runs a slider, which consists of rather more than a half-cylinder of tough wood nine inches to a foot long, and between one and two inches in diameter, polished smooth inside and well greased before use. Slots

are cut transversely through the convex upper face of the semi-cylinder, near each end, and beneath the handles so blocked out are threaded leather thongs.

If the gradient of the rope is small, so also is the friction of the slider, and the weight of the rope causing it to sag towards the far end, the rope dips more rapidly to begin with than it would if it were rigid; consequently the impetus gained at the start is sufficient to carry one across the river. On the other hand the sag, still further emphasized by a person's weight, causes the extreme end of the rope to slope up towards the landing stage, so that the person crossing usually has to pull himself up a few yards at the end.

It will readily be seen that, since this is a single-way rope bridge, there must necessarily be two of them at each crossing, one each way; moreover, that the method is only practicable where the banks are steep and the river comparatively narrow. Of the dozens of single-way rope bridges I saw, I do not suppose one of them spans more than thirty yards of water. For this reason they are not found on the Yang-tze, though they occur a long way east of it, on the Yalung river.

On the other hand, given a narrow river and steep cliffs, there is no limit to the height at which the rope may be suspended above the river, and the lowest point varies from a few feet above the water at winter level—such ropes being partly under water during the summer rise, and therefore impassable—to as much as eighty or a hundred feet above, as is the case with the rope at Samba-dhuka, also over the Mekong, which spans an extraordinary gorge measuring about twenty yards from cliff to cliff. Alarming as these greatly elevated ropes appear, however, it would really make very little difference whether one fell into the Mekong from a height of one hundred feet or a height of five feet.

As far as the traveller's own feelings are concerned the crossing of the bridges seems to be accomplished with the speed of an express train, but Mr Edgar, of Batang, who carefully timed several journeys, obtained an average speed of only ten miles an hour, though animals may possibly travel twice as fast. Of course different ropes vary, but the speed is nothing like as great as one is

tempted to believe.

But to return to our own experiences. I had sent two of the soldiers on ahead to procure slings from the nearest house, and when I arrived at the bridge I found them already on the scene. The soldiers who had escorted me from Wei-hsi, however, were all afraid of the rope bridge now they found themselves face to face with it, and Ho-shing was on the verge of tears at the prospect of crossing. Seeing that we should never get over at this rate, I decided to go first myself, though as a matter of fact I felt as diffident as anybody; and my feelings were still further harrowed by the performance of a soldier, who, after allowing the Tibetans to tie him up, thought better of it just as they were about to let go, and with pitiful entreaties begged to be untied.

I now stepped forward, and with as little delay as possible the Tibetans suspended me skilfully from the well-greased slider, one pair of thongs passing under my thighs, the other under my arm-pits, so that I hung close beneath the rope; and thus secured I advanced to the edge of the platform. Everybody crowded round and gave me excellent advice which I did not understand, telling me exactly how it was done; but as it was obvious that the only point of importance was to keep well clear of the rope, while for the sake of comfort I kept a firm hand on the top of the slider, I did not pay much attention to them.

"Let go!" and at the word I was whirled into space. Whiz! a rush of air, a catch of the breath, a smell of something burning—the rope gets very hot—the hum of the slider over the twisted strands, a snap-view of the muddy river foaming below, and I was slowing down where the rope sagged at the other end. It was all over in a moment, and pulling myself up the few remaining feet to the platform, I untied and stood up on the opposite bank. After that first experience there was nothing I enjoyed so much as a trip across a rope bridge.

The boxes were slung over in exactly the same way, but as they were not capable of hauling themselves up to the platform, it was sometimes necessary for a man to attach himself to a sling, work his way slowly along the

rope, and twining his legs round the load, pull it up after him. After landing I climbed up the bank and began to look about for a convenient camping ground, for it was growing dark and threatening rain. Just then a Tibetan came along and seeing me he stopped, smiling in friendly welcome, and asked me where I was going. I told him that I had just arrived from lower down the river and intended to camp at Tsu-kou for some days at any rate, whereupon he became full of excellent suggestions, pointed out a good camping ground in a gully close at hand, and went off to his house a few hundred yards distant to get a mule.

The camping ground which I had adopted at his suggestion was a small level corner surrounded by trees and boulders, near the bottom of the deep gully referred to, down which roared a big torrent from the western range. Here was plenty of room for the two tents, and a large block of stone near by afforded a deep recess in which boxes might be stored out of the rain. I therefore descended again to the landing stage, and finding that some of the boxes had arrived, Kin and I started carrying things up the cliff to the selected spot; it was just dark now and rain had begun to fall heavily, so that we hastily bundled everything, including a supply of firewood, under the rock. Presently my Tibetan friend arrived with his mule, and the remaining things were soon brought up from below, all the men helping to erect the tents, light the fires, set the water boiling and do odd jobs round the camp under the glare of pine torches supplied by the Tibetans. By this time the rain had ceased and presently the stars were shining brightly, and after supper, weary with travel and hard work, I turned in and was quickly lulled to sleep by the roar of the torrent.

Next morning I was awake early, and went out to look about me while breakfast was being prepared. The small flat on which we were encamped was well screened by large stranded boulders which had been rolled down by the torrent, and was protected by a high bluff. Above the torrent the gully was densely clothed with trees and shrubs, Viburnums, honeysuckles, *Diervilla*, shrubby euphorbias, Celastraceae, barberry, the beautiful *Chionanthus retusus* with its dense masses of white flowers, magnificent walnut

trees, Pyrus, maple, alder, and many more; in strong contrast to the exposed hill sides above. Higher up were woody climbers, a beautiful clematis, the crimson-flowered Schizandra chinensis, Aristolochia monpinense, with flowers very similar to the familiar Dutchman's Pipe (A. sipho), the curious Akebia, Sabia yunnanensis and other delightful things, with splendid trusses of white rhododendron and numerous orchids, including Cypripedium luteum.

The dry hill slopes at this low altitude, however, afforded little of interest, the familiar yellow mullein (Verbascum), a handsome purple-flowered broom-rape (Orobanche), and a boraginaceous flower of brilliant hue (Cynoglossum amabile) being the most noticeable. Some 1500 feet above the Mekong there was hidden away a splendid patch of white opium poppy, secure from the vulgar gaze; it covered

75 square yards, and was now in full bloom.

To the west the river was shut in by a double range of mountains, the lower, which alone was visible from below, rising about 3000 feet above the river and cresting the steep slope with high limestone towers and cliffs; and as far as I could see the same physical features occurred on the east or left bank. Between the river and the mountain slope extended a narrow platform along which a few huts were scattered from Tsu-kou to Tsu-chung. Below Tsu-chung rice is cultivated, this being the last village on the Mekong where it is known, for immediately to the north the climate changes abruptly. With the climate and the want of rice the people change also; there are no more Mosos or Lissus now, only Tibetans, and such Chinese merchants as have settled at the big trading centres.

The platform just referred to however, which is only a few hundred yards wide, does not represent all the cultivation, for the slopes of the first hill range have to a large extent been cleared of their open pine woods and rhododendron scrub, and here are raised crops of wheat and barley. It is wonderful to see the Tibetans ploughing these hill sides with bullocks drawing the wooden plough, which is so light that the man picks it up at the end of the day's work and walks home with it. So steep are the slopes that the stones come rattling down the hill side as each furrow is turned, and so poor the soil, choked with

big slabs of shale, that the very thinnest of wheat crops comes up, and a much larger area is under cultivation than would seem necessary from the size of the population.

Tsu-kou itself boasts scarcely a dozen huts, and scattered up the cultivated slopes of the barrier range are other small villages. Before 1905 the Catholic mission was established in Tsu-kou, but after the burning and sacking of the village by the Tibetans, who rose against the Chinese all along the border from Batang southwards, it was rebuilt at Tsu-chung which is now the more important village, boasting perhaps a score of families, besides a garrison of thirty Chinese soldiers. The charred walls of the mission house at Tsu-kou still stand to mark the site, and close by are the graves of the two French priests who perished in the disaster.

The barrier range above the river has been blocked out from the main range by the torrents which flow diagonally towards the Mekong in the upper part of their course, thus cutting out a wall of rock in front of them, through which they are eventually compelled to saw a deep gorge to the river, though a few of them plunge

over the precipice.

The tortuous courses of these streams, with the consequent formation of barrier ranges, seems to be largely due to an unequal distribution of rainfall in the mountains and in the valley aided by the general N. and S. dip of the strata. Here there is a very heavy rainfall on the Mekong-Salween watershed throughout the summer, and a moderate one in the valley; but as we go further north there is an equally heavy rainfall on the divide, while only a negligible quantity of rain falls in the semi-desert valley; and immense spurs buttress the watershed from river to crest, with no sign of any barrier range. The same structures occur on the Salween on a still larger scale in the rainy and arid regions respectively.

After four days in camp with my three men, the local Tussu requested us to move into one or other of the villages, as he was afraid that we might be plundered in the night by mountain robbers. Meanwhile I had made friends with the two Catholic priests at Tsu-chung, Pères Mombeig and Lesguergues, who visited me in camp and several

times invited me to take supper with them, showing me over the cathedral—a wonderful little building considering the limited resources of the district—and helping me in many ways. Père Mombeig had been through the rebellion of 1905, and from the wild mountains to which he fled from his pursuers, had watched his home and church burning. Then for many days he had wandered half-starved in the mountains and amongst the Lutzus and Lissus of the Salween valley, before finally escaping to the south.

It was through Père Mombeig also that I secured the services of Gan-ton, the man I had met when I first crossed the river, as guide and interpreter during some of my journeys, though I cannot record that he turned out entirely satisfactory. However, as he plays an important part in my first two journeys, I must say something

about him.

He was in the first place that rather curious mixture, a Catholic Tibetan, speaking Yunnanese and Lutzu fluently, and sufficient of the Moso and Lissu tongues to make facetious remarks to almost any tribesman we met; but he did not take his religion very seriously, and was a proselyte or a staunch Lamaist indifferently according to the nature of the task he was called upon to perform. Nevertheless he was intelligent and resourceful, always cheerful, and though in some respects a knave, I found him invaluable as guide, interpreter, and companion during two trying journeys.

The French priests now put at my disposal a small outhouse belonging to a family of Catholic Tibetans at Tsu-kou, my men occupying another room in the same house. The houses of the poorer Tibetan families in the Mekong valley, as of the Lutzu in the Salween valley, consist usually of a single room, sometimes with a partition, very different from the large two-storied Tibetan manor houses met with elsewhere, and when other rooms are required—cattle byres, store-houses for grain and so on—

they are built separately.

We had not been here long before I had to dismiss Ho-shing. For some time I had noticed that my stores were rapidly diminishing, and enquiry elicited the fact that Ho-shing, who alone had access to them, was the responsible

person. Moreover Kin and Sung, who were both excellent fellows, did not get on with him at all, and personally I never took to him, so that he left unwept, Sung taking his place as cook, while Kin accompanied me on my

expeditions up the mountains.

During the twelve days we were in this neighbourhood I explored the gullies and barrier range without much success. It was impossible to get far up the streams, where many interesting plants occurred, on account of precipices and gorges, while on the other hand the exposed slopes offered little of novelty. One day however Gan-ton led us over the barrier range, and so down into the valley beyond, above the fall; and at once we were in a new world. From the pass (10,000 ft.) we looked down over dense forests of rhododendrons, great trees thirty feet high, many of them in full bloom; higher up more forests of fir stretched out dark tongues towards the pyramidal peaks still white with snow, and to the east we could see across the Mekong valley to the snow-covered mountains of the Mekong-Yang-tze watershed.

Descending a steep path, we found a rich undergrowth coming up, but there was as yet scarcely anything in flower, though the place promised well, and eventually reaching a clearing where a small hut had been erected close beside

the torrent, we halted for lunch.

By following up this valley Gan-ton informed us, we could cross the Mekong-Salween watershed, and reach Tsam-p'u-t'ong on the latter river, and I straightway decided to make the journey as soon as the pass was open, about the first week in June; for it was evident that here right before us was a wonderful wealth of alpine flowers.

On the way down we stopped at a mountain hut for refreshments, a simple one-roomed shanty, and I watched the men make their tea, though personally I drank yak milk.

The water was boiled in a big iron pot suspended over the fire, and a handful of coarse tea, sliced off a round brick, thrown in. After being well stirred, the liquid was poured through a conical basket-work funnel into a tall wooden cylinder bound with bamboo hoops; in the funnel had been placed a lump of butter which, melting and passing through the tea leaves with the hot tea, now swam

on the surface in large oily drops. The basket was then removed with the tea leaves, a pinch of coarse salt thrown in, and the mixture stamped vigorously up and down in the cylinder by means of a perforated wooden disc attached to a long handle, which fitted closely like a piston. The oily drops of butter are thus thoroughly broken up and emulsified, the salty flavour equally distributed, and the beverage made ready for consumption. Taken hot from a cup, as tea, the Englishman is apt to find it nauseating, particularly when there are yak hairs from the butter generously distributed through it; but taken hot with a spoon, as soup, it is quite palatable. Such is the power of the association of ideas.

But the Tibetan himself does not as a rule drink it. He takes from the ample folds of his cloak a small leather bag of tsamba (roasted barley ground into flour) and a wooden bowl-two of the numerous articles a Tibetan always carries about with him in lieu of much superfluous clothing-and mixing a little tsamba with the tea, he kneads the mass into a ball of dough-like consistency, and complacently chews it, powdering white rings round his mouth in the process. Then out come the long pipes, a dry tobacco leaf is plucked from a bunch stowed away in the corner, crunched up in the hand, and the dust dropped into the pipe bowl, which is lighted with a layer of hot charcoal ashes pressed down on the top; and the men sitting cross-legged round the fire in the middle of the room contentedly smoke.

Just before we left Tsu-kou, an unfortunate incident occurred. My landlord brought his youngest child to me one evening and asked for medicine for him. The little fellow, who was only about a year old, was suffering from fever and a severe cough, having evidently caught a chill; and to ease the coughing I at once gave him a few drops of chlorodyne. Then giving the parents some quinine tabloids, and telling them to wrap him up carefully, keep him in a warm room, and feed him lightly on hot milk,

I dismissed the affair from my mind.

On the following afternoon it seems, the parents, who had told me in the morning that the child was better, suddenly anticipated the worst, and very foolishly carried the sick child to Tsu-chung to be baptized! Poor ignorant people, they were more anxious to save his soul than to preserve his body!

I was at supper in my room that same evening when suddenly I heard the wail of a woman, and next minute Kin came in to tell me that the baby had just died quite peacefully in his mother's arms. I went out to see if anything could be done, but as I could find no sign of breathing with a looking-glass held over the mouth, I concluded that the parents were right; the little baptized soul had fled.

The mother, a Tibetan woman, warm-hearted and affectionate as are all Tibetan women by nature, was greatly distressed, but her more stolid Chinese husband showed no visible emotion; three small children stood silently by, with their fingers in their mouths, and their little black eyes wide open. Perhaps they had just seen death for the first time in their lives, and I wondered what thoughts were passing in their minds. Next morning I was awakened early by the noise of hammering, and outside I found the father busily employed. He was putting together the coffin for his little child, who was quietly buried on the hill side beneath the white rhododendron flowers the same afternoon.

Gan-ton had undertaken to find porters and make all arrangements for our journey to the Salween a fortnight hence; but unfortunately he did not keep the plans to himself. The news got round amongst the soldiers at Tsu-chung, and a few days later a runner appeared from A-tun-tsi with a note from the official there, asking me not to go to the Salween, as the Lutzu were a very wild tribe and the Chinese could not guarantee my safety. Under the circumstances it seemed best to start at once for A-tun-tsi and set at rest the suspicions of this mandarin, for I did not doubt that he suspected me of being a political agent, and had for that reason described the Lutzu, a most inoffensive people according to Prince Henri d'Orléans, in unnecessarily harsh terms; as is the way with Chinese officials, who in the matter of diplomacy, prefer devious to direct action. Accordingly we packed up, collected mules through Gan-ton who was to await my return, and on May 11 set out for A-tun-tsi.

CHAPTER V

A-TUN-TSI

IT was now necessary to take the Tsu-kou mules across the Mekong, but the Tibetans made no difficulty about this, though the passage of the river occupied nearly three hours.

First the rope was tightened, for it is imperative that the mules should slide right across and land on the opposite bank, they being quite helpless until they feel ground beneath them again. The rope of course, after being used for a time, begins to get slack and sag as already described, and the great weight of the animals naturally causes it to sag a good deal further, so that unless it is braced up as taut as it will go, there is every chance of a mule sticking when little more than half-way across.

Several men therefore twisted leather thongs round the rope while another man slackened the coils round the post; and at a given signal they all heaved together, the slack so pulled up being quickly slipped round the post and the loose end made fast. The rope now stretched practically in a straight line from bank to bank.

Next, some of the men went across, slapping lumps of grease on to the rope at both ends, and as quickly as possible the boxes were slung over the river and safely

landed.

Now came the turn of the animals. Each was led on to the platform beneath the rope and slung from a single slider by two loops, one passing under the belly the other under the chest, the thongs being fastened together across the back of the animal and secured by a stick thrust through the knot; meanwhile two men held back the slider to prevent it starting prematurely which it was now quite prepared to do.

At a signal from the men waiting on the other side the animal was pushed over the edge of the platform and, clawing desperately at the ground as he felt himself slipping into space, shot off in a cloud of dust. It was comic to see the poor animals dangling limply over the river, kicking ineffectually at nothing. But all went safely across to the other side, and as they felt solid ground within reach again, they clawed desperately at the steep bank once more, two men standing ready with leather thongs twisted round the rope to stop the slider and untie the animals—a dangerous game sometimes, for the frightened brutes lashed out indiscriminately till their feet were firmly planted on the bank once more.

Slinging a number of animals across these rope bridges wears them hard, and Gan-ton told me that the Tsu-kou ropes are renewed three times a year. If we allow that on the average five men cross every day, then in round numbers the passage of six hundred men represents the life of a rope, though I doubt very much if it is really as much as this. On the other hand a score of men will change the ropes in the course of a morning, and since a pair of them cost only Taels 2.50 (seven shillings), each village paying for the upkeep of its own ropes, it does not represent a very serious outlay. When the big Lama caravans from Chinese Tibet visit Lhasa, they often carry their own rope bridge with them, a necessary precaution in view of the fact that these caravans sometimes comprise more than a hundred animals and twenty or thirty men.

On the Mekong the Tibetans have found another use for the rope bridge, namely as a means of measuring time. The day is divided into four periods, the first period while the sun is below the eastern ridge, the second from the time it tops the ridge till mid-day, the third from mid-day till it tops the western ridge, and finally from the time the sun disappears below the western ridge till dark. The second and third periods are further subdivided according to the apparent height of the sun between the zenith and the eastern or western ridges, this distance being described as so many lengths of the rope bridge, and, rough as the method sounds, it is surprising how accurately a Tibetan who understands European methods will tell the time by

glancing at the sun. Gan-ton could tell the right time within half-an-hour at any period of the day if the sky was

not completely overcast.

As already remarked, below Hsaio-wei-hsi, where the river broadens out considerably and the banks usually slope more gently, there are only two-way rope bridges, so that the passenger having slid down to the middle of the rope, is compelled to pull himself up the remainder of the distance.

Unlike the Chinese, the Tibetans do not use pack-racks, and though the custom of simply fastening the loads on either side of the saddle by means of a loop has its disadvantages, it certainly saves a great deal of delay when, as in the case of crossing a river, every box has to be separately taken off and tied on again. True, things get badly shaken up by this method, and occasionally a box falls off, though by no means so often as one would expect after seeing the method of tying them on; but on the whole I am inclined to think the Chinese exaggerate the importance of pack-racks, with all the elaborate knots employed.

Bad as is the cliff road from Hsiao-wei-hsi to Tsu-kou, it becomes positively perilous beyond the latter village, more particularly where it traverses the gorges, winding sharply this way and that, ascending and descending by steep stone stairways, jumping scree shoots, or crossing a ravine by a bridge of tree-trunks. The soldiers who loafed along behind were worse than useless, for presently from far down one of the gorges would echo the melodious tinkle of bells, and in the worst possible place the leading animals would meet; whereupon the soldiers

rushing up too late only made the confusion worse.

Mules are not only stubborn, but stupid, and when unattended they will sometimes try and pass each other on a two-foot path. The loads of course lock, but the animals, instead of backing out quietly, put down their heads and push as hard as they can to try and disentangle themselves, so that not only are the boxes banged to pieces against each other and against the cliff, but the outside mule often stands a good chance of going over the precipice.

North of Tsu-kou are Tibetans only. Prayer-flags

flutter gaily from tall poles in all the villages, and at Yang-tsa, where there is a small temple on the opposite side of the river, half a dozen bamboo ropes are stretched

across and similarly decorated.

The river here is lined with big juniper trees, and in the gorges below, where the rainfall is considerable and the vegetation correspondingly dense, the Tree of Heaven (Ailanthus glandulosa) is frequently conspicuous. Beyond Yangtsa however, the climate changes in a remarkable manner, and it is to be noted that this change of climate is closely correlated with the change of race already alluded to. A similar double change occurs in the Salween valley, as we shall point out presently.

The native of S.E. Tibet or Kham is an extremely tall man, averaging little under six feet, though he looks even taller by reason of his slimness—unless indeed it is his height which makes him look slim for, when stripped, the great depth of his muscular chest and the set of his powerful

shoulders give an indication of his unusual strength.

I found them pleasant and friendly people, though filthy. It was rare indeed to meet a man who did not salute me by spreading out both hands in front of him, palms upwards, perhaps a survival from some form of greeting indicating that the hands conceal no weapon. Less frequently they greeted me by putting out their tongues, but when they asked for anything they always closed their fists and stuck up their thumbs. Consequently I came to regard the outspread hands as an ordinary road-side greeting, the putting out of the tongue as a more humble mode of address, and the sticking up of thumbs as a sign that a favour was being asked.

The men wear a single long robe like a dressing-gown made of sackcloth, and leather-soled cloth boots reaching to the knee; in the daytime this cloak is tied up round the waist clear of the knees, forming a short skirt or kilt, and one shoulder is usually slipped out, or in the summer time both shoulders, the sleeves then being tied round the waist. At night the Tibetan wraps himself up in this long cloak and lies down to sleep whether it be under the stars or in a house. Year in and year out, night and day, this coarse hempen cloak serves the poor Tibetan for clothing.

Inside the slack of this useful garment, when tied up during the day, a man will carry a variety of things, and it is like a grotesque conjuring trick to see him producing, apparently from the recesses of an enlarged paunch, such articles as a sword, a tsamba bowl, a chicken, a pipe, and a pinetorch. From his belt hang flint, steel, and snuff-box, and besides the things mentioned he always carries tobacco and a bag of tsamba.

He wears his matted hair done up in a queue bound round the top of his head, and frequently ornamented with a number of coarse silver rings each set with a big turquoise or coral; indeed the Tibetan men are very fond of jewellery and wear several such rings on their fingers. The women however do not make such a display, finger-rings being little worn and ear-rings small. The commonest piece of jewellery is a silver brooch, made in two pieces fitting into each other, which fastens the collar of the jacket.

More curious still, the men always wear threaded on the queue a section of an elephant's tusk, and I found myself wondering why it was that both the Tibetans and Lissus wear characteristic ornaments which are brought from other countries than their own, the Tibetans these pieces of elephant's tusk worn in the hair, and the Lissu women a head-dress, in shape something like a baby's sun-bonnet, covered with cowries, as shown in the photograph. There is little doubt that this last is peculiar to the Lissus, and eminently characteristic of them.

In country districts the Tibetan women plait their hair into numerous thin tails which hang down behind and are collected together into one queue below the waist; but in the cities they wear the ordinary queue, quite half of which is artificial, piled on the top of the head and finished off with two tassels of red or green silk bound with silver wire.

But perhaps it would be more correct to speak of the Tibetans of the Mekong valley, rather than of the province of Kham, for they differ greatly in different parts of this country. At A-tun-tsi is one type, at Pang-tsi-la another quite distinct type, and at Batang yet a third, though it is evident that all these people are nevertheless Tibetans, and resemble each other more closely, for example, than the Lutzu resemble the Mosos, or either of these tribes the Chinese.

At Yang-tsa a woman asked me for medicine, and after one of the soldiers had told me what was the matter with her, and I had taken her temperature, I gave her certain tabloids and directions with magical effect, for next morning she was very much better and came out to my tent to thank me. This young woman was twenty-three years of age and had three children, the eldest being just seven.

The arid region which we now entered owes its existence to a sudden great elevation of the Mekong-Salween watershed, a very fine triple-peaked snowy range being visible to the west, a little north of Yang-tsa. It is curious that Prince Henri d'Orléans who saw this snowy range in 1895 should call the mountain Doker-la, a mistake which has even been perpetuated by the Catholic priests, who live on the spot. There can be no question that it is a mistake, for Mr Edgar and I independently obtained from the Tibetans the name K'a-gur-pu for this splendid mountain, and I myself crossed the sacred mountain Doker-la, which is not covered with eternal snow, and is correctly placed south of the snow range on Major Davies's map of Yunnan.

Major Davies says that he caught sight of these same snow mountains from the Mekong below A-tun-tsi, and that Captain Ryder calculated their altitude at about 20,000 I saw them from the same point however, and noted that the highest pyramid is not visible from here, so that I think the height will eventually prove to be more like 22,000 feet. This great snow range condenses round itself most of the moisture which crosses the Salween from the southwest, thus acting as a rain-screen to the Mekong valley and to the next range of mountains to the east-the watershed between the Mekong and the Yang-tze. Hence results the arid region of the Mekong valley north of Yang-tsa with a rainfall of only a few inches-probably less than tena year, and a greatly curtailed rainfall on the Mekong-Yang-tze divide with a consequent elevation of the snowline.

The arid region is quite devoid of trees, only scattered rock plants, stunted bushes of Sophora viciifolia, and a few

other shrubs maintaining the fight against drought, but there was at this season hardly anything in flower, a few Crassulas being all I noticed. The rosettes of Selaginella involvens grew in their thousands, most of them rolled up into balls like hedgehogs, showing the shimmering undersurface of their leaves, and the fern Cheilanthes farinosa, with leaves brilliantly silvered on the under-surface and also capable of curling up, was conspicuous.

Looked at from a distance the arid valley now presented a series of desert mountain slopes and spurs, only relieved by an occasional oasis of green wheat-fields and shady walnut trees, from behind which peeped out here and there big white houses. These oases occur wherever a mountain torrent has built out an alluvial fan capable of being successfully irrigated, since there is practically no water available for crops other than that brought down by the streams,

which are few and far apart.

During the halt for lunch on the third day an old Tibetan came out from the village, and besought me to go in and attend to a child who was very sick. I must admit I did not like prescribing for babies of such tender years. But the poor people had always such obvious faith in my powers, and begged so hard for help, bringing me eggs and milk as presents, and thanking me on their knees whenever I did anything for them, that to refuse seemed

more cruel than to do the wrong thing.

I found the baby, who was only three years of age and looked less, lying naked on a bundle of filthy rags in one corner of the spacious room, which however, being almost devoid of windows, was very dark. A number of men and women squatted round the fire in the middle, talking and eating. Never shall I forget the awful sight presented by the child as he lay limply on his back, his tiny fists clenched, his mouth half open. Naked did I say? This was hardly true, for as a matter of fact he was almost clothed with flies, which buzzed round in their hundreds as we approached. I counted five inside the child's mouth alone, yet he seemed absolutely indifferent to what would have driven a white child crazy in half an hour. The room, indeed, swarmed with flies, for it was a hot day, and the filthy state in which these people live and keep their houses attracts millions of

them—a condition to which the Tibetans seem absolutely indifferent. My patient appeared half starved, so thin and puny that he was almost a skeleton, and on enquiry I learnt that he immediately rejected any food the parents gave him—a fact which I soon verified with a little hot milk. Moreover he was feverish, and not knowing what to do, though the complaint was evidently intestinal, probably dysentery, I gave him a little weak chlorodyne, leaving some at the house with instructions as to feeding him on boiled milk. But I never heard whether the child recovered.

This case set me thinking. One seldom sees small Tibetan children, and I began to realise that the infant mortality amongst these people must be something phenomenal. Only the very hardiest can stand this exposure to all the vile diseases carried by flies, and to the rigors of winter in the mountains, and hardy babies develop into hardy men, who, without flinching, stand pain such as would make the European gasp. Perhaps here too we have one reason for polygamy, so common amongst the Tibetans, for it is ridiculous to assert that the so-called immorality of various Asiatic peoples has no other foundation than immorality for its own sake. Undoubtedly there are several predisposing causes which make for polygamy in Tibet, and this frightful infant mortality may be one of them, since a man is quite uncertain whether a woman can possibly bear him even one child who will survive, and he therefore mates with several women.

Another reason commonly given, not for polygamy but for polyandry, which is also extensively practised in Tibet, is the avoidance by this means of dividing up the wealth of a family. Thus several brothers marry one girl, each living with her for a month or more at a time and signalising the fact that he is in possession by hanging his boots up outside the door!

But undoubtedly the fundamental reason for polyandry is the fact that the Tibetans as a race are only half-way between a nomadic pastoral people and a settled agricultural people. The men are great travellers and leave their wives behind for months at a time, and these good folk solace themselves as best they can with other travellers.

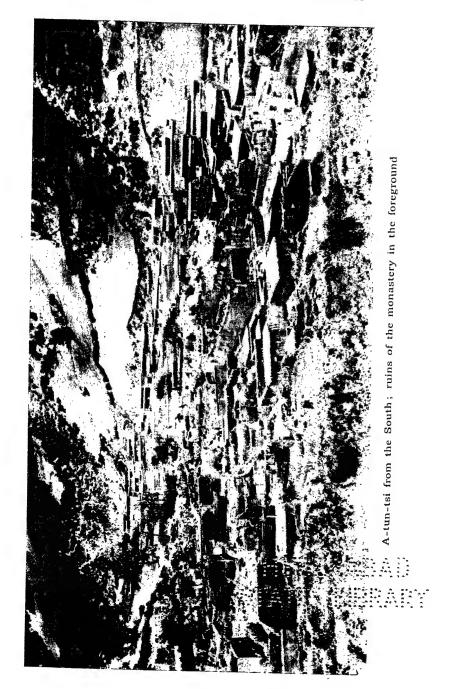
The cynically-minded will add that the argument applies equally well in favour of polygamy. The Lutzu however, who come much into contact with the Tibetans, and all the other tribes of this region, so far as I am aware, are monogamous, which adds the weight of negative evidence in favour of the above theory, since the tribes are notorious

stay-at-homes.

We slept at Chia-pieh on the third night, and next day passed through a dismal defile, overhung with rugged cliffs. One of the soldiers informed me that during the Tibetan rising of 1905, four hundred Chinese soldiers who were coming up from Wei-hsi to the relief of A-tun-tsi were ambushed here, and slaughtered to a man, the Tibetans, hidden up in the cliffs, rolling rocks down and hurling them into the river. There must be some truth in the story, but the numbers are probably exaggerated. Talking of fighting, curious tall watch-towers of mud, square in plan and extensively loopholed, frequently occur on prominent eminences near the villages, and there are more of them on the Yang-tze. I believe they date back only some fifty years, having been built by the Chinese when they subdued the Mantze tribes of Yunnan and Ssu-chuan in the neighbourhood of the main roads.

Leaving the Mekong behind, we ascended the narrow valley towards A-tun-tsi. The stream higher up was lined with tamarisk bushes, and just before we reached the city we had a glorious view of K'a-gur-pu, its triple peak blocking up the entire mouth of the valley, and rising apparently to a prodigious height. But to launch out into superlatives when one has not the most prosaic instrument for the measurement of angles is unwise.

The first person I met in A-tun-tsi was M. Perronne, a French gentleman who was there for the season buying musk from the Tibetans. He had been in A-tun-tsi during the summer months for the last six years, knew everybody of any importance in the village, and was always extremely hospitable, so that when in A-tun-tsi I enjoyed many hours in his company, while his knowledge of the language and people was always at my disposal in any difficulty. I dined with him that evening, and learnt a good deal about the village which was to be my base camp for the next six



months and in return I gave him what news I could from

T'eng-yueh and Europe.

For the next two weeks in splendid sunny weather I explored the surrounding mountains, but in order to make such description of botanical work intelligible, some pre-

liminary idea of the country is necessary.

The village, with a population of about 250 families, is situated at the head of a narrow valley on the lower slopes of the Mekong-Yang-tze divide, the main part of which forms a high rocky range of mountains to the east, its altitude according to Major Davies being 11,500 feet, a higher figure than that given by Prince Henri. The old monastery is in ruins, having been destroyed by the Chinese troops in 1905, but it has since been rebuilt on a hill immediately overlooking the village, which consequently, as far as one can see, is again at the mercy of the lamas.

Considering its extraordinary situation, pinched in the head of this narrow valley, one is not surprised to learn that in the fighting between Chinese and Tibetans, this little village was taken and retaken no less than five times. Of all the horrors then perpetrated we know nothing, though it is freely admitted that the most awful tortures were inflicted by each side in turn when their opportunity came. Five hundred Chinese and Tibetans were killed here alone.

Here is a story from Chun-tien, a city with a big lamasery, eight days' journey to the south-east of A-tun-tsi.

The Chinese official at Lichiang-fu sent two messengers to the head lama, warning the priests not to join their fellow-countrymen in the rebellion, or take up arms against the Imperial Government. The lama's reply was characteristic of the ferocity of the Tibetans when roused, one man being taken and skinned alive, the other sent back to take news of his fate to the Lichiang official. And the monastery still stands!

Since the rebellion, the garrison of A-tun-tsi has been increased to a hundred men, numerous Chinese merchants have established themselves, and the Tibetans, now poverty-stricken, have been deprived of all power. Most of the old lamas were either killed during the fighting or executed afterwards, very few escaping into the mountain fastnesses of Tsa-rüng.

At Batang, His Excellency Chao-Er-Feng, Warden of the Marches, who was recently executed by his own soldiers, was accused of committing numerous atrocities, beheading men, women, and children indiscriminately when the day of retribution came. This may or may not be true, but one thing is certain, namely that, under the circumstances in which he was placed, Chao acted on the whole humanely, according to his lights, on behalf of Chinese and Tibetans alike. He beat to death more Chinese soldiers for double-dealing with the Tibetans than he did Tibetans for murdering the Chinese.

Personally my sympathies are all with the Tibetans, whom I like, but one must never forget, in judging the Chinese methods of repression and retaliation, that they were dealing with a barbarous and scattered people covering an immense tract of inaccessible mountains; that these people are hardy, resourceful, and unimpressionable; and that they had wantonly put to the sword the Chinese Amban at Lhasa, one holding the rank of Viceroy—a position in the Chinese Empire second only to that of the Emperor himself—together with over a hundred of his followers.

Between A-tun-tsi and the Mekong to the west is a high mountain rising in steep screes and precipices devoid of vegetation to a rocky ridge about 4000 feet above the village; and when the summer rains break, great quantities of gravel and mud are washed down the valley, inundating the houses at the lower end of the village. Landslips of this nature occur periodically, every year mountains of mud descending and doing no little damage. In August 1911 it rained furiously for a week and a tremendous quantity of the mountain came away, forming a river of liquid mud which damaged several houses and made a complete wreck of one.

The deep valleys which seamed the high range to the east were clothed with vegetation up to 15,000 feet, above which altitude south-facing slopes, exposed to both sun and wind, presented bare screes with a scattered and highly-specialised flora, while north-facing slopes were covered with turf, forming what may be called alpine grass-land. In the narrow valley itself below 12,000 feet there was no

real forest, the slopes rising immediately above the village being clothed with scrub oak and numerous rhododendrons, many of them now in bloom, with a variety of shrubs and small trees, such as the mock orange, barberry, Hippophaë rhamnoides, cotoneaster, and Deutzia discolor. Indigofera, Caragana, Desmodium, and other shrubby Leguminosae were common, with Spiraea canescens and innumerable roses, and the slopes were covered later with masses of white and yellow clematis, chiefly C. montana and C. nutans.

The forests consisted mainly of firs, but in places there were poplars, maples, and birches, and here too were a few climbers of the genera Schizandra, Vitis, and Actinidia. The beautiful pink-flowered Podophyllum Emodi grew in the shady nooks of the shrub belt, along with two delightful Cypripediums—C. Tibeticum and C. luteum—and higher up, at 13,000 feet, the white-flowered Souliea vaginata was just blooming, its flowers opening almost before the leaves appeared, as is the case in so many of these shade plants. In drier places was a yellow-flowered shrubby paeony (P. Delavayi) and a dwarf blue iris (I. kumaonensis). Several species of Primula were already in flower, mostly shade and moisture-loving species, such as P. sonchifolia, the recently discovered P. lichiangensis, and P. septemloba.

At 15,000 feet there was still a good deal of snow, at least on north-facing slopes, and consequently not much

was in flower as yet.

At this season the Tibetans, who still form more than half the population of A-tun-tsi, exclusive of soldiers—for nearly every Chinese soldier has a Tibetan wife—were preparing with child-like glee for their annual festival, which fell on

the first three days of June.

The Tibetans always strike me as being so much more jolly and irresponsible than the Chinese, who are just as sedate and gloomy when enjoying a holiday as at any other time. The latter never seem able for a single moment to shake off the idea that life is a serious fever which has to be borne, and consequently they never take risks. Every question of policy is carefully debated from all possible points of view before any particular line of action is decided upon; everybody asks everybody else's advice before

committing himself, and nobody ever does anything unless he has a majority behind him. Genius branching out on its own responsibility, if it ever occurs, is severely frowned down; there is no room for sentiment. This communistic principle in village life is so frankly at variance with the one-man autocracy of higher administration that it would be surprising in so practical a people, did one not realise that inconsistency is characteristic of the nation. Each rank is consistent with itself and that is all that can be said. Nevertheless this practice enables the villagers to suggest simple remedies for all evils, and inculcates in them a great capacity for managing their own affairs without falling back upon authority in the shape of the nearest mandarin.

Here is an example from A-tun-tsi.

One of several treasurers for the sum of Taels 1400 (about £180) subscribed by the Mohammedans for the purpose of building a mosque showed a defalcation of Taels 300 when the time came for the money to be produced, and the brotherhood of local merchants, instead of appealing to the mandarins, of whom there were two on the spot, thrashed the matter out among themselves. All day they sat in conclave, smoking and talking together, and at the end of the day, having examined the defaulter and several witnesses, they unanimously decided that the money must be paid back by monthly instalments as soon as possible, the merchant's furniture and effects being sufficient surety for him. Thus his peers were witness, judge, and jury.

The Tibetan festival itself seemed more in accord with the usages of *Nat* propitiation than with Lamaism, except that it was eminently cheerful, and the people, led by their priests, went to the summits of the three nearest hills to east, north, and west in turn, in order to burn incense and pray; after which they ate cakes. The first day however was devoted entirely to the amusement of the children, for Tibetan mothers, as I frequently observed, are warmhearted creatures with a great affection for their offspring.

Dressed in their best frocks, and wearing all the family jewels brought out for the occasion, they went up into the woods in the afternoon, picked bunches of flowers just as



Tibetan women of A-tun-tsi



Chinese and Tibetan boys in holiday attire at A-tun-tsi

English children love to do, romped, made swings and swung each other, and finally sat down to eat cakes, which they had been busily making for a week past.

Just as the young of different animals more nearly resemble each other than do the adults, so too are children very much alike in their games the world over; picnicing is not confined to Hampstead Heath, nor picking flowers to botanists.

In the evening they all trooped back to the village to dance in the mule square, and skip. Three or four little girls would link arms and facing another similar line of girls advance and retreat by turns, two steps and a kick, singing, in spite of their harsh voices, a not unmusical chorus; the other side would then reply, and so it went on, turn and turn about.

It was a most delightful parody of that pretty little Christmas game "Here we go gathering nuts and may," and I enjoyed watching it though I did not understand the words, which were probably less ingenuous than in the ditty quoted. But the girls themselves, in their long frocks of dark blue cloth buttoned up one side and trimmed with a narrow border of white, long-sleeved jacket to match, scarlet cloth boots, and tasselled queues, looked charming. All wore several silver bangles, besides ear-rings and large brooches, practically all the jewellery they could find room for. The boys played together, but were less resourceful than the girls and, as in other parts of the world, never seemed to know quite what to do with themselves. They wore smart white coats for the great occasion, but favoured Chinese dress, and probably they are made to do so in the schools in A-tun-tsi, for one never sees a small boy belonging to the village in Tibetan dress. One boys' game is however worth mentioning. They called it 'eggs' and it is played as follows. One boy is in the middle—a fundamental necessity in nearly all children's romps-and sprawled on all fours over several pebbles, representing a bird sitting on a nest of eggs, which the others, who danced round, were trying to despoil. When a favourable opportunity offered itself, one of the pillagers would dart at the eggs, and if he secured one without being kicked or hit, he was deemed to have been successful; otherwise the mother bird who pivoted round with much agility, kicking out right and left, in front and behind, put him temporarily out

of action-metaphorically speaking.

My landlady, whose young sister was one of the revellers, gave me a plateful of dainties—little round cakes made of pastry with a great deal of pig's fat in it, filled with chopped up walnuts and spices—and in the evening, having lighted up the family altar with a row of tiny brass butter lamps, she placed other little cups full of grain in front of the gods—again recalling *Nat* propitiation; for these offerings to the deities are no part of true Buddhism I believe, and the debased Lamaism of Tibet really seems to have been grafted on to an original *Nat* worship.

On the last afternoon I went up to the lamasery on the hill to watch the service for half an hour, but it is not a very wonderful place and in its internal decoration boasts only the relics of its former glory. The one living Buddha or reincarnation sat cross-legged on a dais at the far end of the temple, and the seventy or eighty priests present, many of them only small boys, sat on the floor in rows, mumbling the responses. From time to time the band struck in with a wild crash, the wail of the conch-shells, the jingle of cymbals, and the blare of the long trumpets sounding very strange in the big dimly-lit hall. Many people were, like myself, standing round looking on, and the younger priests at least were more intent on watching the crowd than on their devotions.

Presently, on a signal from the usher—an oldish lama with a wrinkled face continuously wreathed in smiles, who stood just behind the Buddha's throne—the people began to file round the temple, each as he passed in front of the Buddha placing a small strip of white silk on a pile already gathered, and receiving in exchange a blessing which consisted of nothing more material than a tap on the head from the left hand of the Buddha, palm upwards; and they had to pass before him in an extremely uncomfortable doubled-up position to get that. The pilgrims for the most part retained their gravity till they were half-way down the temple again, when they began to giggle in a most unseemly manner, evidently in contemplation of the trick they were about to play on the old man; for at least half

of them joined the queue again and went round a second time, thus receiving two blessings for one piece of silk, and like Esau needlessly squandering the poor old man's patrimony. A number of children who went round with the procession had nothing at all to offer, though they too received a perfunctory blessing and moved on, highly

pleased with themselves.

On June 2 I called on the official and asked for permission to return to Tsu-kou for three weeks, as there were no flowers yet on the high mountains round A-tun-tsi. I had worked the lower slopes pretty thoroughly during my fortnight's stay, and had not only found several nice things, but had observed that in another month I ought to make some rich finds. In the meantime I was anxious to cross the Mekong-Salween watershed and prosecute my search westwards.

Chao, the chief official, offered no objection to my returning to Tsu-kou and promised to send round the necessary animals on the following morning. Sung was therefore deputed to remain behind and look after my baggage, while Kin and I, with food for a week, tents, medicine chest, camera, and a few other necessities set out on the morning of June 3.

CHAPTER VI

A JOURNEY TO THE SALWEEN

THE return journey to Tsu-kou occupied just over three days and was uneventful. The Mekong gorge was becoming more and more parched now, for the warm summer winds were already blowing with daily increasing fury as the deep trench became heated up, and the cold air swept down from the overhanging mountains to take the

place of that dancing up from the scorched rocks.

The nights however were delightful. My tent was always pitched near some thundering torrent, which was music to me, and lying in bed I would watch the brilliant arc of the new moon set over the mountains. travelling with an ula passport obtained from the yamen, my men commandeering from each village in turn the requisite number of animals and porters, who were bound to take me as far as the next village, the rate of pay being fixed by the yamen. This system of relay transport obtains on the main road across Tibet and in the Tibetan Marches for the convenience of Chinese officials travelling on business-the Tibetans, nominally in return for grants of land, agreeing to keep in readiness a certain number of transport animals at fixed posts. As far as cheapness and certainty of transport are concerned, the system has its advantages, but from other points of view it is often very unsatisfactory, an hour or two being sometimes wasted changing animals when others are not immediately avail-When this happens several times a day, it becomes exasperating.

In the Mekong and Salween valleys the loads were generally carried by women and boys, and in all my journeys, when travelling with ula, I found that the people were more ready to carry the loads themselves than to find the necessary animals; probably because the country is so poor and offers so little grazing land near by, that transport animals are scarce. Cattle, it must be remembered, are, with the sheep, taken up to the high alps for the summer. Mules are little used in S.E. Tibet; ponies are few even in large villages like A-tun-tsi; and donkeys, chiefly used by the big lama caravans making pilgrimages to Lhasa, are difficult to procure.

At Yang-tsa I saw the woman whom I had doctored on the way up; she was now quite recovered from her fever, and greeted me in the most friendly fashion, inviting me to lunch in the large dark kitchen, where I saw a new method of warming tea. Several flat stones, each with a hole bored through the centre, were placed in the fire till they were red hot, when they were hooked out and dropped one by one into the wooden tea-churn, in which we could hear the

tea bubbling merrily.

One night I camped to leeward of a magnificent Asclepias tree in full bloom, which perfumed the night air. The cicadas were chirping all round, the Mekong could be heard thudding over the rocks below the village, and so brilliant was the moonlight that I was able to write my diary in the open air. And sitting there, I heard above the voice of nature yet another sound, the sound of drums being wildly beaten. Presently there came into view a procession of villagers headed by priests, carrying fragrant torches of pine-wood, sticks of smouldering incense, drums, gongs, and red sign-boards on which various Chinese characters were depicted. Outside the tiny village temple an altar had been erected, and a fire crackled lustily at the entrance, sending a dense column of smoke up into the air. On the altar were trivial offerings of grain to the gods, and no doubt many paper prayers were burned and wafted to them on the breeze. Then the procession marched round and round the altar, and passed into the fields, waving the torches madly, while the noise grew louder. They were praying for rain. The whole ceremony was a strange mixture of Chinese and tribal customs, for there was more than a hint of Nat propitiation in it.

The river had risen considerably during the past three weeks and the water was no longer olive green but chocolate red. Still there was no hint of rain till we entered the rainy belt just above Tsu-kou. A ribbon of blue sky followed the windings of the river; the wind gradually rose each morning, raged with increasing violence throughout the middle of the day, and died quietly away towards evening; the bare rocky slopes glared in the sunshine and

danced in the quivering air.

One morning I picked up one of the large, brilliantly coloured bugs (Hemiptera) which swarmed on the flowering shrubs now in full bloom, but he emitted such a powerful odour that I quickly put him down again. At the same moment a fly got in my eye, and I thoughtlessly put up my finger and began to rub it. Great heavens! I began to think I would never see again. It was as though a drop of vitriol had been squirted into my eye, which for some minutes ran with water and gave me great pain, and though there could not have been more than the merest trace of this excreted liquid on my finger, it was evidently a most powerful acid, a drop of which would doubtless blind a man. After a time the pain passed off, but for the rest of the day my eye was puffy and bloodshot.

Early on the morning of June 5th we reached the ropebridge at Tsu-kou, and crossed to my old camping ground in the gulley; and I lost no time in seeking Gan-ton and telling him that we must start without delay. He therefore promised to find porters and get off on the following day

as quickly and quietly as possible.

That night I saw fire-flies and listened to the bull-frogs groaning down by the torrent, but next morning it was raining again, and the limestone precipices which crowned the first range were buried in mist. I spent the morning climbing up the gulley to the foot of the gorge, finding several beautiful orchids in flower on the limestone rocks. I saw, too, several common pheasants, and heard snow-pheasants calling in the bushes. Fine butterflies, including the English swallow-tail, *Papilio machaon*, or a closely allied species, inhabit the valley, and they became quite a nuisance in my tent, settling on the milk and butter tins in clouds. On this excursion I also saw a small black snake with an

expanding hood, like a cobra's, and a big water-snake, the only two I recollect seeing in the year, though lizards were common enough on the dry rocks of the arid region.

At mid-day Gan-ton came along with his six Tibetan porters, and after lunch we started up the mountain in the rain. Fate was on our side, for the small military official posted at Tsu-chung was away, and there was no one to hinder us.

Our party consisted of Gan-ton, who was guide and interpreter, Kin, six porters, my watch dog Ah-poh, and myself. Ah-poh was a Tibetan mastiff, and he became much attached to me, though the most I ever taught him was to come when I called. Ascending the barrier range through pine-woods, we reached the last village, situated among steep stony slopes, from which a thin crop of barley is extracted, and at the topmost hut stopped for the night. We were not far below the pass over the spur, and perhaps 2000 feet above the Mekong.

Throughout the night it rained steadily. I had pitched my tent on the flat roof of one of the huts, but unfortunately it was not flat at all, but sloped in towards the centre, and when I awoke next morning the inside of the tent was a lake, into which I inadvertently stepped from

my bed.

It continued to rain all the morning, and the porters declared that it was quite impossible to proceed under these circumstances, for the path was steep and slippery; so I endured the delay with what patience I could, and spent the time draining my tent. After lunch the rain held off for a bit and we started again, crossing the spur (9000 feet) and descending into the dense rhododendron forest. Towards the summit, clumps of Cypripedium luteum were prominent, with a very large white-flowered Viola, a Rodgersia, an Osmunda, and other shade plants. A steep and slippery path led down from the pass towards the bed of the torrent, and then began the long pull up the valley, tripping over roots and creepers, clambering over logs, and slipping this way and that in the mud.

I have already compared the dry, pine-clad slopes of the barrier range fronting the Mekong valley with the richer vegetation of the gullies, and the deep valley behind the barrier ridge in which we now found ourselves presented forests and undergrowth richer than anything we

had yet come across.

Amongst the dense thickets of rhododendron, many of them big trees thirty feet high, but none now in flower, a magnificent spruce was conspicuous, besides maples, birches, and alders. Between the forest trees and the herbaceous undergrowth was a second tier of shrub vegetation, Caprifoliaceae (Lonicera, Viburnum, Diervilla), Saxifragaceae (Ribes, Deutzia), Rosaceae (Rosa, Rubus, Prunus, Spiraea),

with Clematis montana and clumps of bamboo.

The undergrowth itself varied considerably according to the nature of the forest, consisting in one place mainly of ferns, in another of a yellow-flowered Corydalis growing very rankly, but just here it was far more varied. A pretty pink Oxalis was conspicuous, with several species of Arisaema; here and there was a Listera, Monkshoods occurred in quantity, and numerous plants of Lilium giganteum were just showing their leaves. Indeed, the Liliaceae were as richly represented as any order, and included some very sweet-scented Oligobotryas both pink and white-flowered, Paris, Convallarias, and others. There were ferns too, as stated, Aspidiums and Aspleniums chiefly, but these were confined to the damper parts of the forest.

The Aroids (species of Arisaema) were the most peculiar of all, for many of them had not only the spathe drawn out into a flagellum several inches in length, and covered by a lid very similar to that of Nepenthes, but the spadix itself was similarly attenuated. Instead of being straight, however, the spadix was bent sharply down on itself, by which means it was brought out of the investing spathe, and then turned upwards again in its original direction. The object of this external spadix, which is coloured, is undoubtedly to attract and guide insects to the flower, the double bend being merely a mechanical device to expose the spadix without the necessity of raising the lid. As to the latter, which is simply the triangular tip of the spathe bent over and drawn out into a long flagellum, this is perhaps useful on account of the persistent rains in the forest where these Arums grow; but the use of the flagellum itself, which is the most remarkable feature of the plant, is not so easy to determine, though by its mere weight it holds the elastic flap well down over the aperture and effectually closes it from above, leaving only a narrow slit round the edge. This slit, however, is not very accessible to insects, owing to the rim of the spathe being turned down and outwards, and it seems to me that an insect's only line of entry is down the spadix.

If indeed the flagellum is affected by the weather in such a manner as to raise or lower the flap according to the humidity of the atmosphere, we should have its use clearly defined: but though I am inclined to ascribe some such function to it, I never saw it operate in this way, for it was always raining when I was in these forests.

As we climbed higher, mixed forest gave place first to birch and finally to open alder forest, with a dense undergrowth of Corydalis: rhododendrons, spruces, and other trees had all disappeared from the valley bottom, though higher up they still clothed the mountain slopes.

Here we found a small wood-cutter's hut, and into this we crowded just as the rain began again, making the night very chilly, for it poured steadily throughout it, and dripped through the shingle roof, so that with daylight I was glad to crawl from beneath wet blankets into wet clothes. prospects for the day looked utterly miserable, but at seven o'clock it began to clear up, and when we started an hour later, the rain had ceased. Passing through the drenched alder forest which grew rapidly thinner, we presently emerged into the open, where alpine meadow, with tall grasses and flowers, alternating with clumps of bamboo brake and fir trees, clothed the valley. Now we waded the cold stream (at least the men did, but I was carried across), recrossed it higher up by means of a tree-trunk which afforded precarious foothold, climbed steeply up through bamboo thickets, and, crossing once more over a snow bridge beneath which the torrent had cut its way, reached the head of the valley and sat down to lunch. Before us rose the snow-clad rock wall of the Mekong-Salween watershed.

The alpine flowers spread out at our feet were magnificent—the glorious sulphur-yellow *Meconopsis integrifolia*, *Primula sikkimensis*, large Thalictrums, Caltha, Anemone,

Primula Watsoni, and higher up the dwarf blue P. bella with Soldanella, crimson azaleas, purple columbines and many more, forming sheets of colour. Every rock and boulder supported a small garden of saxifrages and tufted alpines, every marsh displayed masses of some rare flower such as Primula Souliei, with sedges, gentians, and sphagnum.

Here and there streams coming down from the mountain in front had been ponded back by detrital cones washed across their path, and had consequently formed bogs from which I think a good peat might be dug. Thin cascades came tumbling over the precipices in front of us, and in the smooth rounded rocks which here occupied the valley floor and the piles of scree or moraine material through which the torrent had cut its way, there were indications of previous glaciation.

For nearly three hours we struggled up through the soft snow, frequently sinking in to our knees, the porters even to their waists, requiring to be pulled out by their companions. Finally we reached the summit, and lighting a fire, I boiled some water, which I found boiled at 85.5°C. giving 14,500 feet as the approximate height of the pass. This however is probably too much, and 14,000 feet may be nearer the mark.

At the top of the pass the snow was banked high, and ended abruptly, the southern face, which was extremely precipitous, being clear for the first 1000 feet or so, though a single large drift lay down below. A cold wind was blowing up either side of the pass, and here we have an explanation of the fact that while the slopes of the col itself were bare of trees, to the right and left on the neighbouring peaks spruces extended upwards to a height above that of the actual pass; but there they were not exposed to this concentration of wind along the valley bottom, which raked the col from both sides.

The Sie-la as the pass is called, has been crossed several times by French officers and travellers, and is frequently crossed in all weathers by the intrepid Catholic priests of the Mekong and Salween valleys. It is said to be clear of snow for two or three months in the year, though when I crossed it in November it was already more deeply under snow than in June. Were it clear of

snow, there would be no great difficulty in taking mules across, though it would be a slow business, but with the snow as deep and soft as we now found it, the undertaking would be hazardous, and I was glad we had not attempted it.

We spent half an hour resting on the summit. There was no view, though to the east the snow-clad Mekong-Yang-tze divide showed up, while to the west we looked only into a deep valley. Behind us lay China, in front

Tibet.

The pass faced E.N.E. and W.S.W., presenting considerable differences of vegetation on the two slopes, due to the earlier melting of the snow on the south side, which was consequently much drier, besides being steeper. It was covered with a short alpine turf dotted with hundreds of flowers of the small mauve *Primula pulchella*. Later in the summer, other flowers appear, including a *Meconopsis*, which I found in seed five months later.

On the snowy slope, however, were shrubs, chiefly azaleas, junipers, and willows which protruded through the snow here and there, brown tussocks of a fern with no new fronds showing as yet, and the silvery leaves of a potentilla. Evidently this slope is covered with a rich assortment of plants from July to September, but when I saw it again the snow was deeper than ever and not a twig showed through.

The rock appeared to be a grey banded gneiss with a good deal of quartz, much crumpled and tilted, so as to present sharp edges above and steep precipices below.

Descending from the pass, we found ourselves in a larger valley running more or less north and south, and passing through alpine meadow once more, we reached a second hut on the edge of the forest towards dusk; the rain which had held off all day setting in again. All round us was high alpine meadow with scattered willow, alder, and birch trees draped with lichen, which flapped dismally in the wind. A tall crucifer (Cardamine macrophylla) was conspicuous here, and Gan-ton informed me that the Lutzu and Tibetans boil and eat the leaves and stems. He also pointed out some brown fritillaries and a hyacinth, the bulbs of which are eaten by the natives, an Umbellifer of

which the leaves are eaten, and several edible toadstools,

besides aconite used to poison their arrows.

In the evening two Lutzus, who were crossing the mountains to Tsu-kou, arrived at the hut and joined my men round the fire. They had with them several voles (Microtus Wardi) which they had trapped higher up, and these they proceeded to skin and fry for supper. I ate one myself, and must admit it was not at all bad. Gan-ton told me that the Lutzus make special bamboo traps for these voles, of which they catch and eat a great many. I saw one of the traps later, an ingenious contrivance, on the principle of the pheasant-trap already described, the vole crawling out of his hole and putting his head into a noose, which is immediately drawn tight by the springing up of a bamboo.

Next morning we climbed straight up out of the valley over the western ridge, passing through dense groves of bamboo brake, and higher up through spruce and rhododendron forest. From the pass (water boiled at 87°C. giving an approximate height of 13,000 feet) we had a clear view westwards right across the deep Salween valley to the Salween-Irrawaddy watershed beyond, but unfortunately it was extremely cloudy. What we did see, however,

was this.

A range of snow-clad mountains stretching from south to north rose above the cloud-banks, and high above all one peak stood out conspicuously, its snow-fields and glaciers seen distinctly through the moisture-laden atmosphere. This is the mountain known to the Tibetans as Kê-ni-ch'un-pu, which rises right above the village of T'sam-p'u-t'ong on the Salween. Beyond this range we come to the Nmai-kha or eastern branch of the Irrawaddy, where reside the Ch'utzu, a little known tribe who, I was told, tattoo their faces, though I do not remember that Prince Henri remarks on this in his book, From Tonking to India, and no one else, unless it be Captain Bailey, has been amongst them.

Judging by the views I obtained of this range in November from another pass, it does not appear to be covered with eternal snow for any great distance either north or south of the main peak, though it evidently receives the full force of the south-west monsoon blowing



At the limit of trees, Mekong-Salween divide: Abies forest thinning out at 13,000 feet

over the plains of Assam, thus acting as the first great rain-screen to the deep valleys we are considering. Consequently there are probably no higher ranges to the west in this latitude, and the snow-line on the Salween-Irrawaddy divide is likely to be even lower than on the Mekong-Salween divide.

Captain Bailey, who in the same month crossed to India further north, mentions seeing from above the Irrawaddy a snowy range to the east of him—probably Ta-miu between the Mekong and Salween, to which I shall refer later. He then crossed a pass between the Salween and the Irrawaddy 15,676 feet above sea-level, where there was a good deal of soft snow on June 17th. The pass, however, would probably be clear later, and judging from his account, I gather that this divide is not so lofty above Men-kong as where I saw it further south.

What, however, struck me more than this wild snow-clad range peeping up above horizontal strata of silvery cloud, was the appearance of quite another range running more or less at right angles to the above—that is east and west—but as I was looking at it end on, it was difficult, on account of perspective, to be certain of the direction of this range, while the fact that the far west was buried in cloud made it still more deceptive. Afterwards I learnt that the late Mr Lytton believed he had seen such a range from the Salween valley further south, so that there is some authority for my statement, but on the other hand Captain Bailey says nothing about a transverse range, and he, if anyone, should be in a position to know.

Does this cross-range, terminating the Tibetan plateau in the form of a high bluff, really exist? If so, it seems probable that the eastern branch of the Irrawaddy at least rises from its southern slope. No better natural boundary between Assam and Tibet could be devised.

Near the pass, the grassy hill side was honeycombed with vole burrows and I noticed one or two traps, but I did not see any voles scampering about as the pica-hares do by day on the Tibetan plateau.

Descending through dense fir forest, the path lined with a fine mauve Primula (*P. nivalis*), we emerged on to open grass-covered hills where yak and cattle were grazing.

Patches of scrub showed up below, and the gullies were choked with dense forest. From time to time the sun broke through, and gleamed on a high yellow cliff far below us, which looked strangely small against the dark range behind. This limestone bluff marked the position

of T'sam-p'u-t'ong.

The valley immediately below us was not that in which the Salween flowed, for there was still another barrier ridge to cross. I do not quite understand the conditions necessary for the formation of these parallel barrier ridges—spurs from the main divide—but they are probably due in part to the arrangement of the rocks, though, as previously suggested, the distribution of rainfall may also have something to do with it. I never saw a mountain stream flowing parallel to the main river in the arid regions, though in the rainy regions of both the Mekong and Salween it is the normal thing.

In the evening we reached Bahang, or, as the Chinese call it, Pei-han-lo, a small Lutzu village perched on the side of the mountain more than a thousand feet above the valley. There is a French Catholic priest stationed here, but he was away; also a posse of Chinese soldiers not very

far from the village.

No sooner was my tent up than it began to rain, and continued all night and all next morning. Accordingly it was impossible to start in the morning, and when we did get off in the afternoon the clouds were very low and it was still drizzling, so that we only descended to the valley, and continuing up it for a mile or two, took shelter in a Lutzu hut in the village of Mu-la-t'ong just as the rain began again. Gan-ton said it rained every day in the Salween valley, and so far I had had no occasion to disbelieve him.

No sooner were we in our new quarters than a woman came to me for 'foreign medicine,' and it was now that I congratulated myself on having brought my tabloid medicine chest with me, for here was an opportunity to get on a friendly footing with these shy natives, though it was unfortunate that the patient was another baby. I always found babies the most unsatisfactory patients, for they could not themselves say what was the matter with them and their mothers didn't know, which left the amateur

very much in the dark. However with the help of Gan-ton, who resurrected such symptoms as he could from the mother's mind, and a thermometer, we diagnosed the case and prescribed simple but innocuous remedies, leaving the rest to faith—the parent's faith, that is, which was infinite. I found too, after a little more experience of sick babies in this region, that they rang the changes on two or three mild maladies which I eventually became quite expert in

coping with.

We were a lively crowd in the one room of the hut. I had a corner to myself where my bed was set up under a small square window cut out of the log wall; there was no shutter to it, but in spite of the incessant rain it was not very cold. Round two fires in the middle of the room were gathered my eight men, the woman of the house, her three children, and four more men. What may be called the floating population, who looked in occasionally and sauntered out again at will, included several of the villagers, a calf, a cat, two or three pariah dogs, and a flock of hens, while the odour and grunts of sundry pigs rose up between the loose floor-boards.

The Lutzu tribe, amongst whom we now found ourselves, are interesting for the reason that they seem to indicate an irruption of tribes from the west. That they have come down the Salween valley from Tibet, representing one of the links in a chain of emigration in that direction, I do not believe, and so far as language is any test, the Lutzu tongue seems to bear no more resemblance to Tibetan than could be accounted for by the fact that the Lutzu are a small tribe enclosed by Tibetans who, being great travellers and traders, have long been in and out amongst them. The English language has been influenced in much the same way by Norman, but is not related to it.

The Lutzu on the other hand, are not traders at all, being in the enviable position of having everything they require, hemp for their clothes which are woven by the women during the winter, tobacco, maize, wheat, buckwheat, apples, oranges, and so on. Bamboos and gourds supply them with vessels, and with the cross-bow they shoot game. Though not a drunken people, they certainly drink large quantities of liquor made by fermenting maize;

but this beverage, which is of the consistency of pea-soup and is taken warm, is probably more nourishing than inebriating. In the winter men and women sit round the fire for hours at a stretch, chatting, smoking, and drinking. It is meat and drink and medicine to them, and by no means unpalatable.

The men wear their pig-tails down, not bound on the top of the head as do the Tibetans, and their dress, though simple, is not unpicturesque-short breeches (probably copied from the Chinese) and shirt of white hemp cloth. trimmed round the collar and sleeves with light blue, and strips of cloth wound loosely round the calf, like puttees. The women wear a single long-sleeved garment usually of dark blue cotton cloth, reaching below the knees and tied round the waist, and frequently a hempen cloak, extending across the chest from the right shoulder to the left arm-pit, is added. A hempen bag, decorated with seeds but of plain workmanship, is slung over the shoulder, and it may be remarked that similar bags are carried by most of the tribes west of the Mekong, but not by the Tibetans or Mosos. They usually bind the pig-tail round the head, after the style of the Tibetan women, but there is little jewellery worn. Some of the girls before child-birth are extraordinarily handsome. Their complexion is decidedly lighter than that of the Tibetans, but not so sallow as that of the Chinese, the features are regular, the nose well bridged, the eyes large and round, the high cheek-bones scarcely prominent.

The religion of this people is a modified form of Lamaism, but I believe this has been clumsily grafted on to a much older cult, probably *Nat* propitiation, for in common with the Lissu and other tribes they hang up special corn cobs in their houses, which are, I think, in the nature of propitiatory offerings to the Penates, a practice which is not observed by the Tibetans at all. How far their Buddhism differs from the degraded form current in Tibet, I cannot say, for the only rite I ever saw anyone perform was when the young lady of the house took up a jug of water, and made the sign of the cross over the household fire by throwing water across it to north, south, east, and west. She did it in a very business-

like way, just as she might have fed the chickens, the first shower hitting the wall behind, and the last one

drenching me.

I find it difficult to escape the conviction that the Lutzu, now essentially an agricultural people, represent a jungle tribe in a comparatively advanced stage of civilisation. Their short stature, their method of carrying loads by means of a strap passing round the forehead, their use of the cross-bow, pre-eminently a jungle weapon for jungle warfare, owing to its short range and diabolical effectiveness, their gourds and bamboo tubes, and their rope bridges, all suggest this.

It is a well-known fact that since the great mountain ranges and deserts of Asia stretch east and west, emigrations on a large scale have, for the most part, taken place in this direction also, it being easier to skirt such obstacles than to cross them. But a narrow gateway lies open southwards through the rampart of mountains which rims Central Asia in the region of the parallel rivers, and, while marvelling at the one corner of high Asia where great emigrations in a north and south direction have probably taken place, one should not lose sight of the fact that emigration may here also have taken place in an east and west direction.

All night long and all the following morning it poured with rain, nor had it entirely ceased when we started after lunch. The morning was spent in doctoring the sick, for my fame as a healer had gone abroad, and at one time we had six mothers with unweaned babies at their breasts asking for medicine, till, with my own men and curious spectators to a total number of thirty, the hut looked like the out-patient room of a London hospital. We had a splendid variety of ills, from a bruised shoulder—the result of a scuffle—to a sick headache, and we did something for all of them. Their gratitude was unbounded, many of them bringing me presents of milk and eggs.

During the day, a big caravan composed of twenty-five animals and about forty porters passed through the village, carrying silver and supplies of rice, sugar, tea, and so on to the troops at Bahang. They had been six days on the road from A-tun-tsi, crossing the mountains by the Chun-tsung-la, a pass further north, only 13,000 feet high, the lowest and easiest pass in this region, which we were afterwards destined to cross in November on our

second journey to the Salween.

The garrison at Bahang was established for the purpose of holding the Lissus in check from the north, and the soldiers make periodic excursions down the Salween valley, there to fight with the tribesmen. These latter are thoroughly accustomed to jungle warfare, at which they are adepts, and no doubt they enjoy the sport, though their only weapon is the cross-bow, pitted against the magazine rifle. However, even the cross-bow skilfully handled is a match for a rifle fired at haphazard in the jungle, and I was told on good authority that in a recent attack on a Lissu village, the Chinese soldiers had fired four hundred rounds without hitting a man.

Chinese activity in the Upper Salween valley dates from 1910, when two German explorers, who had attempted to penetrate into the unknown part of the valley north of Mr Lytton's explorations, were murdered by the Lissus. The rights and wrongs of this business will of course never be known, but without casting aspersions on two brave men, it can scarcely be doubted that they were themselves partly responsible for their fate, if only because they had with them an Indian cook. If there is one hard and fast rule which may profitably be observed when travelling amongst the Tibetans and tribesmen, it is this: travel with the people of the country and don't take outside Asiatics as servants. Their presence may or may not be resented as such, but it is quite certain that sooner or later they will get into trouble with the natives. Major Davies, who was accompanied by Sepoys, had experience of this when he tried to get into Tibet. Lieutenant Clarke, who had with him an Indian servant, got into serious trouble with the Mohammedan Chinese of Kansu, and lastly the German explorers added one more to the list of disasters which I firmly believe may be traced at least indirectly to this cause.

The authorities of Yunnan were goaded on to take action in this matter largely owing to the efforts of Consul Rose in T'eng-yueh, and an expedition was sent up the Salween valley to punish the tribesmen. A village was

burnt, several men on both sides were killed, and some prisoners were brought down who, being apparently recognised by the Indian cook, or found to possess property of the murdered men, were beheaded. They may or may not have been the right men; probably they were not, but the Chinese practice is to punish the crime without reference to the criminal, so that everybody was satisfied.

After this, the Chinese began to realise that it would be best to adopt a more active policy in the Salween valley, and the Lissu fastness was consequently attacked both from north and south, garrisons, as already described, being established at convenient points to contain them. The Lutzu, however, are a peaceful tribe, who have, I believe, given no trouble.

In the afternoon the rain abated, though it continued to drizzle, and we began the ascent of the last ridge, passing through a belt of dense jungle at the summit, where masses of a most beautiful and sweet-scented orchid, the name of which I have yet to discover, were in flower. Presently we emerged on to the open hill-side again, and at last caught sight of the great Salween river winding in close coils through its deeply-eroded valley.

Bracken and grass clothed the hill-side; here and there were pine trees and low bushes of rhododendron and Pteris, but the undergrowth had been fired in many places previous to the rains and there were not many flowers in bloom, though I noticed several orchids including Spiranthes, one or two Liliaceae, and the tall white Anemone Japonica. The path was very steep and we descended at a great pace to a small hut about half-way down the mountain, where we stopped for some refreshment. Here I saw one of the most beautiful girls I have ever come across, a graceful lustrous-eyed creature, with warm sunburnt complexion. One meets such beauties sometimes amongst the Lutzu, more often amongst the Moso or the Tibetan tribes, and instinctively one wonders where they come from, for they possess no obvious Mongolian feature, neither prominent cheek-bones, nor almond-shaped eyes, and scarcely even the distinctive colouring, for the complexion may be so light as to resemble that of the European. Their straight black hair and black eyes alone betray them.

Here we were given wine to drink, which was not unlike Chinese wine, a sort of crude wood-spirit. Meanwhile the girls sat on the floor talking, and slowly made string by twisting hemp fibre, bobbins of which they carried about in their bags, while the men smoked and chatted and drank their thick maize wine, which is to them much what a cigarette is to an Englishman. Presently two of the girls, sisters no doubt, sitting side by side, put their heads together and quaffed from the same bamboo cup, a proceeding which elicited much mirth. I saw this performance on a subsequent occasion, also by members of the fair sex, and again there was ill-concealed mirth amongst the elders, so that I was inclined to attach some unknown significance to it.

After half-an-hour's rest we descended to the valley, reaching the scattered village of Cho-la just as the rain set in heavily once more. The huts are built a hundred feet or so above the river on a gently-sloping platform, which is evidently an old river terrace, partly built up during the flood season and partly the result of tributary torrents spreading out their loads of detritus as they debouch from the mountains. In the rainy region these terraces form a continuous shelf between the outermost range and the river, averaging a hundred yards or more in breadth on the concave sides of the bends; but as soon as we enter the arid region, the river saws its way vertically downwards, and in spite of the windings there is nowhere any hint of a platform other than an alluvial cove. Everywhere these terraces are cultivated; rice, wheat, and maize being grown in summer and buckwheat in the autumn.

The house we put up in was large and roomy for a Lutzu hut, but I had a smaller building to myself, a tiny shanty used as a chapel for the Penates and a storehouse for maize cobs. My bed was put up alongside the altar, and I slept in the shadow of grotesque gods, while all night long the pitiless rain rattled on the shingle roof. I slumbered unconsciously through it all.

CHAPTER VII

THROUGH THE LUTZU COUNTRY TO MEN-KONG

On the following morning the rain gradually abated, and not only did it cease entirely before mid-day, but the cloud canopy began at last to disperse; it had rained continuously for the last fifty-six hours, and I was becoming rather

depressed.

We now crossed the river in dug-outs, the Lutzu paddling us across with large square-bladed paddles, though there was a fine current running, the river being forty or fifty yards broad, considerably bigger and swifter than the These dug-out canoes closely resemble those used by the Malays, but the dug-out is of necessity almost exactly the same everywhere, and was so widely distributed over the world at such a remote period that it probably originated in a number of distinct centres, and its presence in this place or that is not necessarily any evidence of con-

nection between the two peoples.

The high rocky banks of the river are composed of purple slates tilted nearly vertically, and slate instead of wood was frequently used to tile the huts. Above the alluvial platform, however, bare scarps of limestone were frequently conspicuous. The same slaty rocks appear on the Mekong much further south, where they are also tilted vertically, or nearly so. The river makes remarkably close S-shaped curves, but is not here interrupted by serious rapids, and we saw several Lutzu in their canoes fishing. Close inshore, nets attached to stakes are occasionally set up, but most of the fishing is carried on from canoes, a V-shaped net suspended between two long bamboos being plunged under water; the legs of the V are then widely opened and the net lifted to the surface.

We lunched at the village of Ze-tou, a few miles up the The alluvial platform was now confined to the right bank, but there was not much cultivation, beans and barley being the chief crops. Deep gullies cleft the range behind, affording glimpses of high forest, and in the shadow of these cliffs the vegetation was extremely rich, a considerable variety of terrestrial orchids being particularly noticeable, also ferns, irises, campanulas, and a single plant of Lilium giganteum, the only one I saw in flower. It was six feet high, but would grow taller yet, with half-a-dozen long white trumpet-shaped flowers two or three inches across. On the drier slopes were pine trees, ferns of the genus Pteris, and a lycopodium, but in the cultivated parts we walked between hedgerows of large St John's Wort and yellow roses, lined with blue irises. At last we came to a deep ravine, dominated on the other side by a high bluff. on which T'sam-p'u-t'ong is built; and at the top there stood waiting for us a solitary figure, clearly silhouetted against the sky. It was a Chinese soldier.

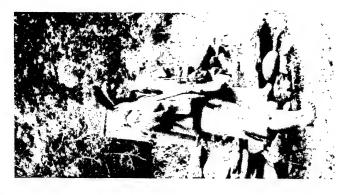
With commendable and surprising brevity, he asked just sufficient questions to identify me and no more, but I had told Gan-ton to be quite vague as to our ultimate

destination, not being quite certain of it myself.

T'sam-p'u-t'ong is a small village built on a steep slope, backed by a fine limestone cliff. The wooden huts were as usual scattered, the monastery dismantled and falling to pieces, the yamen unpretentious, being indeed part of the derelict monastery. The thirty priests were apparently dispersed; presumably they are or were Tibetans, not Lutzu. The population of the village consisted of perhaps thirty families, Lutzu, Tibetan, and a few Chinese, with an official and a garrison of ten soldiers.

The official himself accosted me while my men were vainly assaulting the locked doors of the lamasery, and introduced himself in an off-hand manner; whereupon we repaired to the yamen to drink tea. After a little talk he kindly offered to open part of the lamasery for me, but it was in a most dismal state of disrepair, though there were some excellent wall paintings. The official, having failed to discover by what route I intended to return to A-tun-tsi, remarked urbanely before taking leave, that of course I

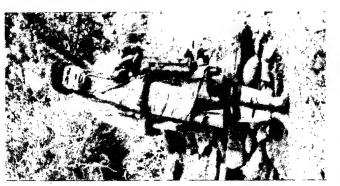
Plate XVIII



carrying a bamboo water-tub A Lutzu woman of Cho-la



Lutzu woman of Cho-la



Lutzu cross-bow man of Cho-la

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would not go into Tsa-rüng "as the road was very bad"the usual formula of every official who politely deters one from making a journey—and he would be happy to provide me with an escort to see me safely back.

Of course I acquiesced, so next morning, we continued our journey up the valley with an escort of two soldiers.

Looking westwards, I noticed for the first time that a big valley here slits open the Salween-Irrawaddy divide, and subsequently I was told that by following up this valley, the Irrawaddy might be reached in four days, though the journey was described as one of great difficulty and danger. It was some months later that I met in A-tun-tsi the former official of that place, a man named Hsia-fu, who had himself two years previously made the journey across from the Salween to the borders of India by this very route, and had subsequently been dismissed from office. At the same time I met 'Joseph,' who in 1895 had guided Prince Henri from Tali-fu to India; but their route lay to the south of T'sam-p'u-t'ong. Both men were disposed to make the most of their hardships, which were certainly severe, since the journeys were undertaken during the rainy season, when mosquitoes and leeches were at their worst, every river a roaring torrent, and the vegetation so dense that it made progress terribly slow.

Some of my porters having returned to Tsu-chung, three of the loads were now carried from village to village by relays of Lutzu, usually women, frequently dwarfish or

deformed people, who were possibly slaves.

Immediately above T'sam-p'u-t'ong we entered a magnificent limestone gorge, and here the results of the heavy

rainfall in the Salween valley were fully displayed.

The narrow path through the gorge was shaded by a great variety of tall, straight-limbed trees, including several Asclepiadaceae and some species of Ficus with flowers borne directly on the old wood, their straight unbranched trunks frequently supported by feebly-developed plank buttresses. A great variety of lianas such as Rhaphidophora, and creepers, made the jungle still more dense, and amongst an array of epiphytes I noted, besides numerous orchids, a fern which I could not distinguish from the tropical Asplenium nidus-avis, though I have never before

seen it so far north. Amongst the undergrowth was a big erect selaginella (perhaps S. grandis), and here many of the orchids were in flower, amongst them being a Dendrobium with long pendent sprays of orange flowers. Yet, in spite of the heavy rains in the Salween valley, it is only the deep gorges and gullies which are filled with this dense monsoon jungle, the fully exposed mountain sides being covered with bracken, grass, scattered pine trees and low scrub.

The obvious inference is that rain alone does not satisfy the monsoon forest, for it cannot stand full exposure during the dry winter, the reason being that the only source of water, namely the heavy dews, are rapidly evaporated in the hot sunshine. Hence on the exposed slopes of the broad open valley there are found chiefly Conifers (Pinus) and semi-xerophytes, for most deciduous-leaved trees of the north temperate forests require water at all seasons of the year. Similarly, higher up on these exposed slopes are forests of spruce only, while in the deep narrow valleys are alder, birch, maple, and many others.

Just above the gorge is the village of Lang-chi, and here a big torrent pours itself into the Salween from the west, the latter tumbling several feet over an enormous accumulation of boulders, with a noise like thunder.

was the first big rapid we had seen on the Salween.

A little further up on the other side is the village of Wu-li, and now we came upon two rope bridges, by the second of which we crossed to the left bank. Here I was interested to observe that the Lutzu when crossing the rope bridge always carries with him, fastened by a loop to his wrist, a bamboo tube full of water which he tilts just in front of the slider. This doubtless reduces the friction and, by keeping down the temperature, lessens the wear and tear on the rope.

Seeing the rope bridge here in the dense jungle, set me thinking of its origin. I surmise that it is the practical application of the natural liana bridges probably to be found stretching across the headwaters of the Upper Irrawaddy, as they certainly do in jungles elsewhere. If so, this would lend more colour to the suggestion that the Lutzu are immigrants to the Salween from the west, the idea of the rope bridge having been copied by the Tibetans, and carried right away eastwards.

In the afternoon there was a very perfect sun halo, a phenomenon which I had seen several times in the Mekong valley, usually followed by rain. It is perhaps caused by water vapour drifting across the hot valley from one mountain range to the next, under the influence of the south-westerly wind. I never saw this halo in the arid regions further north. There was an abundance of insect life in the valley, butterflies and beetles being particularly numerous, though I noticed no uncommon genera. Brilliantly coloured *Hemiptera* were another feature, besides long green stick-like insects (Mantises) and many lizards. Birds however were few, and I saw no other animals.

Later in the afternoon, at a point where the Salween emerged from another deep and narrow gorge, we turned up a valley to the east and ascended to the village of

K'un-a-t'ong.

Here there was a small chapel, and I called on Père Bernadier, who had spent forty years of his life on the Tibetan frontier in the service of the Catholic Church, during which time he had only once returned to France. I found him a most interesting man, and spent a very pleasant evening in his company. He told me that, with the exception of an American journalist named Nicolls, all the travellers in this region had been Frenchmen, beginning in 1895 with Prince Henri, and ending only the year before with M. Bacot, and I learnt something of what the Catholic priests and other travellers had done. It is curious to reflect now, that at this very time two other Englishmen, Captain Bailey and Mr Edgar, were at Men-kong, whither I had decided to push on.

The French mission on the Tibetan frontier has been subject to many vicissitudes, and its centres have again and again been moved, so I doubt whether any lasting impression has anywhere been made in the Salween valley. Certainly I must confess I saw no obvious results of it amongst either the Lutzu or Tibetans, for I cannot honestly ascribe their friendly attitude to the good offices of the Catholic Church. The latter at least are hospitable or hostile according to the whim of the moment, hospitality

prevailing, and the former, I believe, are never anything else but friendly. Personally I think we owe more to these bold priests for their additions to our geographical and scientific knowledge of the country than to their efforts at

proselytizing the natives.

I had now, as already stated, decided to push on up the Salween valley as far as Men-kong, the obscure capital of the province of Tsa-rüng, but first it was necessary to get rid of my escort, for I did not feel comfortable at the prospect of travelling either amongst the Lutzu or the Tibetans with Chinese soldiers, who are apt to be overbearing. I had found my escorts, even on the main roads of Yunnan, rather a nuisance, dislocating the traffic and overawing the people. There, however, it did not much matter, and an official escort always looked well, for it showed the peasants plainly that my presence in their country was acknowledged by the officials, and if there is one thing the Chinese peasant reveres after his ancestors, it is a mandarin or anyone under his protection, and escorts are the hall-mark of the yamen. But in Tibet it is different, for the Chinese 'brave' is not, except on the main road, the familiar object there that he is elsewhere: and being intolerant of 'wild men,' as he calls them, he is apt to get into trouble with these bold independent spirits. For myself I had no fear, as I was travelling with the people of the country, and was not likely to do anything foolish.

Consequently I told the two soldiers who had escorted me from T'sam-p'u-t'ong that I was staying here a week to collect plants, and that they had better return. gave them a small present as is customary, and they started gaily back the same evening, no doubt to be soundly rated for letting me out of their sight. In the night I changed my mind and decided to go straight on next day.

K'un-a-t'ong boasts a population of fifteen or twenty families, with more scattered at intervals up the valley. is the highest point on the Salween where rice is cultivated, and when next we saw that river a marvellous change had taken place in the character of the country.

Unfortunately it was now necessary to make a two days detour back into the mountains, on account of the impassable gorges through which the river flowed. A narrow path, said to traverse these gorges, was now under water, though exposed during winter; so narrow was it, however, that loaded porters could not at any time negotiate it. Could one ascend straight up the valley there can be no doubt that from the jungle of the K'un-a-t'ong gorges to the beginning of the arid regions at Saung-ta would be no more than a day's march.

The chief at K'un-a-t'ong, a tall broad-chested man with a strong pleasant face, obtained three porters for me, and the villagers were well satisfied when I paid over their wages to him before we set out. This man, who was richly dressed and carried a long spear, was a fitting counterpart to the beautiful girl I had seen previously; on the other hand, my three temporary porters were dwarfish and criminal-looking, bearing little resemblance facially to the ordinary Lutzu type. What struck me more than anything else, however, was that one of them had a distinctly negroid type of countenance, with thick lips and flattened bridgeless nose, and instinctively I recalled a Tibetan woman in A-tun-tsi who had precisely these characteristics developed in the same unmistakable way. There can indeed be no question but that amongst some of these Tibetan and other tribes a negroid type does occasionally crop out, but for the present, at least, I forbear to speculate on its origin and significance. All my Lutzu porters, both men and women, carried their loads by means of a strap made of twisted bamboo strands passing round the forehead, a method commonly adopted by dwarfish races, as already remarked, and especially by jungle tribes, being common, for example, in Borneo; but it is never adopted by the Tibetans, who carry their loads on their backs by means of shoulder-straps. The Lutzu are not indeed dwarfs, but they are distinctly short in stature, and we have here another argument in favour of their jungle origin.

We had scarcely started up the valley when the rain began again and continued all day. Presently we entered the forest, where many of the big trees were covered with epiphytic ferns and orchids and draped with moss. Amongst the undergrowth dense patches of an Impatiens and the pretty little Enchanter's nightshade (Circaea) were conspicuous, besides the Oxalis already referred to. Higher up we came to towering limestone walls with bunches of flowers hanging from every crack and cranny—the small mottled Cypripedium guttatum, Primula sinensis, saxifrages,

Epimedium, begonias and other pretty things.

Camp was pitched under one of these big cliffs, where the stream dashed through a deep gorge, and while the men settled themselves beneath a protecting ledge of rock and built up a big fire, my tent was erected amidst the soaked undergrowth. I was wet through, and for once thoroughly tired out by the long climb through the forest. For a long time we sat round the fire chatting, Gan-ton and Kin happily being in the best of spirits. The latter had borrowed a Tibetan cloak, and walked into my tent in this guise to ask me what I thought of him, somewhat to my amusement, for I failed to recognise him.

As the men, one by one, dropped off to sleep, I left the warm little nest under the cliff and crept into my cheerless tent beneath the dripping trees, leaving them all curled up round the fire like cats. It grew colder and colder in the night, pouring with rain throughout, and I awoke to hear Ah-poh barking furiously; next morning Gan-ton told me that it was because he had seen wild animals in the forest,

deer perhaps, or bears.

June 16th was our longest and hardest day, and still the rain continued. I got up feeling very unwell, and the long slippery climb up an awful path made me feel worse than ever; but the men stuck splendidly to their work. An ascent of about 4000 feet through rich forest brought us to the pass over the spur, but when we wanted to stop for lunch below the summit, the men were unable to light a fire, so we had to go on. Every Tibetan or tribesman when crossing the mountains carries under his cloak a few chips of resinous spruce wood, so that with his flint and steel and a little dry grass for tinder, he has all the necessaries for starting a fire. To secure this resinous wood, a big tree is selected and burnt on one side, a process which seems to attract abundance of resin to the wound. charred bark is subsequently sliced away, and pieces of wood cut from the trunk. Along the forest paths these blazed trees, with quantities of resin exuding from the wound, are a common sight, and the Tibetans, when they meet with one, hack out with their swords a fresh supply for their torches, or for starting a fire.

I found that there are definite camping and haltingplaces on all these trails, sometimes under a cliff, perhaps, such as the place we had occupied on the previous night, or under a big tree, the blackened trunk of which has been

hollowed out by a long succession of camp fires.

The torrent we were following up to its source was frequently interrupted by small waterfalls, due apparently to the presence of harder shale strata amongst the limestone rocks; but in the stream bed were blocks of olivine, red porphyry, and other altered igneous rocks. A dense herbaceous vegetation five to six feet high, composed mainly of Ranunculaceae such as aconites, columbines, and larkspurs, with Polygonum and saxifrage, lined the sides of the forest, in which arborescent Ericaceae, especially rhododendrons, were conspicuous, with spruce and larch predominating towards the summit.

Crossing the spur at 12,000–13,000 feet we turned north, and during the descent gradually worked round to the west again. *Primula sonchifolia* was still in flower up here, and lower down were masses of the shrubby *Paeonia lutea* and the two species of *Cypripedium* already referred to several times. On the limestone cliffs I noted for the first time bunches of the delicate violet-flowered *Isopyrum grandiflora* (Ranunculaceae) of which I afterwards found

quantities on the limestone cliffs above A-tun-tsi.

The descent to the Salween was a long and trying affair, for the mountain side was extremely steep and slippery, and my toes were sore for days afterwards from being pressed so hard into my wet boots. Gradually the high rain forest gave place to pine-clad slopes, and finally we found ourselves in a deep ravine with scattered huts and patches of cultivation above. Masses of orchids were in flower on the shale rocks, but as we approached the Salween everything seemed to shrivel up, and there were left only low-growing leguminous shrubs, and myriads of globular selaginellas. At dusk we got down into the Salween valley and approached the village of Saung-ta,

when suddenly a number of men came out from the houses and advancing towards us, made us welcome in the most friendly manner, bowing and smiling to me, and exchanging conversation with the men. Thus we were escorted into the village by the chief and his friends, and were quartered in the best house available.

Saung-ta contains about twenty-five houses built along the edge of the river bank. Behind it is a very narrow cultivated platform, and cultivation extends up the lower slopes of the mountains for some distance. Just below the village, the river narrows and silently enters the gorges, but here it is divided by an island of shingle and chatters merrily by. There are a few houses on the opposite bank also, the Lutzu crossing backwards and forwards in their canoes, several of which were drawn up on the beach. The houses are built, not with gable ends and slat roofs, but in the Tibetan style, with flat mud roofs which are reached through a square aperture in the centre; an open shed usually covers one side of the roof, forming the second story, and there may be two or three rooms down below, instead of the one large room common to the Lutzu huts at Cho-la. A few miles higher up the Salween, the Lutzu finally give place to the Tibetans, just as on the Mekong the Moso and Lissu tribes do, and it is obviously their influence that we see at work here.

Tibet, it must be remembered, is largely a region of deserts and semi-deserts, using the term in its widest significance to include regions rendered more or less devoid of vegetation by salt steppes, by wind, or by lack of rain, and towards China at least the limit of desert conditions marks the limit of the race. Perhaps it is just these highly abnormal conditions which render the agricultural Chinese immigrants powerless to cope with the situation, and cause their gradual absorption by the thoroughly acclimatised Tibetans.

At Cho-la and T'sam-p'u-t'ong we have, if not the original Lutzu architecture, at least remnants of it, but this type of log hut with slat roof is, as a matter of fact, built by many tribes, being indeed almost universal in the Mekong and Salween valleys till we get down south amongst the Shans.



A Lutzu girl of Cho-la weaving hemp cloth



Lutzu of Saung-ta in the arid region of the Salween valley

The most extraordinary change observable in the Lutzu tribe, however, was not in their houses, but in their persons. Their tangled hair, cut in a short fringe across the forehead, hung matted over back and shoulders; the men and women were in Tibetan dress though they wore no boots and little jewellery, but the girls wore the skins of goats or precipice sheep sewn together into a sort of sleeveless overall with the hair inside, and the children went about naked. were, without exception, the filthiest people I have ever come across, and had not the excuse of climate for their marked aversion to water. Their complexions were darker, and their features, instead of being more Mongolian, were, if anything, more negritoid than those of their relations down Their vessels are of bamboo and pottery, they weave hemp, till the fields, and fish. Barley, maize, and hemp are grown, besides pomegranates and prickly pears. Cattle and chickens were the only domestic animals I noticed, and we were able to buy eggs, milk, and butter.

Wooden rosaries are commonly worn by the men, metal bangles and ear-rings by the women; the men frequently wear one ear-ring only, in the left ear. There were a few priests in the village, both men and women, with closely shaven head, but we saw no religious ceremonies performed. They had a curious habit of smelling anything new at the very outset of their examination of it-my clothes, a piece of canvas, even a piece of silver paper, were all smelt critically, which suggests at once that they must possess a keen and discriminating sense of smell. The general uncouthness of these people must be ascribed to a variety of causes, amongst which the impossibility of cultivating rice, their isolation from all but the scattered Tibetan settlements higher up the river, and the change of climate, are no doubt important. But undoubtedly the chief cause of divergence is a negative one, namely the absence of Chinese influence.

The Chinaman unconsciously influences those tribes with whom he comes in contact-excepting always the Tibetans—so that they gradually lay aside their more barbarous habits. The Lutzus on the borders of the arid region may not perhaps precisely resemble the original tribe who came, as I believe, from the jungles in the west,

but they are likely to be far less changed than the Lutzu of T'sam-p'u-t'ong. The former we may call 'black' Lutzu, not entirely with a detergent significance, to distinguish them from their more refined relatives to the south.

My tent was pitched on the flat roof of one of the The rain had ceased, and a warm breeze blew up the valley; a few stars shone out through rifts in the clouds, and tired as I was after eleven hours climbing in the rain, I turned in and slept like the dead. The sun was high in the heavens when I awoke and heard below me the river

rattling over the end of the shingle bank.

For the remainder of our journey up the Salween valley the weather was glorious, yet trying. About mid-day a scorching wind began to blow, increasing in violence till the middle of the afternoon, and gradually dying out after sunset. The deep U-shaped valley became a V-shaped gorge like that of the Mekong, the cliffs became more and more bare, the dryness of the atmosphere steadily increased till it became intolerable, and day after day the sun glared in the ribbon of blue sky which faithfully followed the windings of the deep valley. But on the mountains east and west poured the everlasting rain. It was an exact repetition of the Yang-tze and Mekong, and further, in the case of the Salween and Mekong at least, the arid regions begin in exactly the same latitude.

The jungles of the Salween, as we have seen, give place abruptly to the arid gorges above T'sam-p'u-t'ong, and it would be possible to pass in a day from a region where it rains practically every day for six months in the year (it is useless to hazard what the rainfall might be) to a strip of country about two miles wide where the annual rainfall certainly does not exceed ten inches, and may be

substantially less.

The Salween-Irrawaddy divide stretching north and south with its high snow-clad peaks above T'sam-p'u-t'ong checks the rain-bearing winds from the south-west, thus acting as an efficient rain-screen to the valley further north. Any clouds which succeed in crossing this range throw down their moisture, not in the deep and narrow valley, but on the now greatly elevated Mekong-Salween watershed, which, from an average altitude of 15,000-17,000

feet opposite T'sam-p'u-t'ong rises suddenly to the terrific

peaks of K'a-gur-pu and its northward extension.

The Mekong-Salween divide then, and particularly the great pyramid of K'a-gur-pu, acts as a second rain-screen, and with such effect that it not only cuts off almost the entire rain-supply from the Mekong valley, but also to a very large extent from the next range to the east, the Mekong-Yang-tze divide, thus elevating its snow-line two or three thousand feet. The effect is still further enhanced by the fact that two big mountains rise above the snowline on this range also, opposite K'a-gur-pu, and when the winds reach the Mekong-Yang-tze watershed, almost stripped of their moisture, what little remains is condensed by these high summits. This unequal distribution of rainfall on the ranges east and west of the Mekong has a considerable influence on their physical features, on the composition and distribution of their flora, and other points to be discussed later.

At mid-day we reached the last Lutzu village, called Laung-pa, and after lunch embarked in a dug-out for a voyage through some more gorges; and an interesting voyage it proved. This dug-out was barely 24 feet in length, about 18 inches in the beam amidships, and the same in extreme depth, but there were no less than twelve of us on board besides the dog and the luggage. We squatted on our haunches in single file, there being five paddle men forward and a single steersman aft. Our gunwale was almost awash, and considering the water we had to go through, I frequently thought we must capsize. The men hugged the walls of the gorge when they could, pushing against the rocks with their paddles, then darting across the river to avoid a rapid and catch the back-current. Whenever shingle islands or a shore line appeared, they got out and tracked, hauling the canoe through a lot of rough water with their bamboo rope. Thus we covered several miles till we came to the first Tibetan village and finally disembarked. The last I saw of the Lutzu they were drifting down stream in the canoe, sweeping their V-shaped net under the water. There was no hint of rain now; it was a glorious evening, and a scorching wind raged up through the gorges, which grew more and more wild and lifeless. We did not reach our destination till nine o'clock, but it was a brilliant star-lit night, delightfully warm.

La-kor-ah consists of three huts and a temple, in the shadow of which the tent was pitched. It was a sanctified spot, and dozens of prayer-flags made it look larger than it really was, while on each side of the temple stood a row of big leather prayer-drums, much the worse for wear, containing probably hundreds of yards of the everlasting prayer. Each passer-by set them revolving one by one, the rusty spindles groaning fearfully in their sockets. Immediately below, a grey glacier torrent came booming through a deep sword-cut in the mountains and sweeping down into the mighty Salween was instantly engulfed in a surge of yellow waters. Up this narrow rift lay the pilgrims' road to sacred Doker-la. Here Gan-ton learnt from the residents that the French traveller M. Bacot was at Men-kong with a large number of mules, and I looked forward to meeting him; but in this country one rarely hears the truth of a story the first time of asking.

Next day's march through a terribly arid and totally uninhabited stretch of the valley was a tiring one, though the track was surprisingly good. The river swept in huge S-shaped curves round colossal buttresses, smashed its way through deep gorges, and roared over the boulders. mense screes, sometimes smoking with the dust of falling rocks, rose bare and lifeless on either hand, and the ceaseless scorching wind, which seemed to suck the vitality from everything, blew throughout the day with ever-increasing violence. Once in crossing a scree, I narrowly escaped being hurled into the river by a small avalanche, but hearing a peculiar noise I glanced upwards in time to see a cloud of rocks whizzing through the air, whereupon I turned and ran, reaching safety just as they hummed past.

Under that incandescent sky, stretched like a tongue of fire up the valley, the place became an oven, but the mountains to east and west were as usual buried in cloud. However from the village of Chia-na we watched the sun sink in a wild blaze of colour behind Men-kong, now only a few miles distant. Above Chia-na a narrow stony valley to the east led to another pass across the watershed. The lama caravans which pass through A-tun-tsi go this way to Lhasa, joining the main road again at Chiamdo, to the north of Men-kong.

Passing between boulders of granite amongst which grew masses of Opuntia now in Hower, we reached the capital of Tsa-rüng before mid-day, and leaving the men to fix the camp, Gan-ton and I crossed to the right bank

by the rope bridge, and climbed the cliff.

Men-kong is built on an alluvial fan washed down from the mountains by two converging torrents, and ending abruptly in a bluff some six or seven hundred feet high, the Salween—here almost continuously interrupted by rapids flowing in a deep trench below. Scattered down the slope are the big two-storied 'manor' houses, standing amongst fields of waving corn and shaded by magnificent walnut trees; the contrast between the golden barley and the olive green foliage, from amongst which the white houses peeped

out here and there, was charming.

Up on the hill side, almost under the shadow of the forest, stands the ancient monastery, its splendour dimmed by the ravages of time, unheeded by the priests and people, and westwards the neglected road winds away over the mountains to the plains of Assam. The stone-paved courtyard facing the temple is empty now, and the heavy doors of the temple itself are locked. Only the wind sighs gently through the sombre arbor vitae trees which spring up here and there amongst the courts and little wooden houses, some of them decked with flowers where the priests reside, and the ragged prayer-flags flutter merrily. Even as I stroll through the deserted court-yard, its red and white walls almost flashing in the brilliant June sunshine, I hear the rise and fall of the flails, and the chorus of Tibetans singing perhaps their harvest song.

The population of Men-kong, including adjacent settlements across the river, is given as seventy families, and the monastery contains about a hundred priests. There is also a garrison of fifty Chinese soldiers from Ssü-chuan, and after visiting the monastery I paid my respects to the military official, a very pleasant young fellow. He did not seem in the least surprised to see me; rather did he look as though he expected an Englishman to stroll into

Men-kong every day, and I soon learned the reason. I had arrived just too late to meet two Englishmen (afterwards identified as Captain Bailey and Mr Edgar, the English

missionary at Batang).

It was bitter luck to have missed them! How splendid if the three of us had been able to foregather there, and compare notes of our journeys which had only overlapped for the eight or ten miles from Chia-na! M. Bacot, who in the previous year had been, I believe, the first European other than the Catholic priests to visit Men-kong, was not there at all; the mistake as to who the mysterious European was in front of us arose from the fact that Captain Bailey and M. Bacot (who had been accompanied by my guide Gan-ton) possess the same Chinese name.

From the military official I learned that India might be reached in three weeks, and that eight days journey to the west was the village of Chi-gong, where another Chinese post had been established, and only a day's journey from Chi-gong was Rima, also Chinese. These places are of course within the basin of the Upper Irrawaddy, so that it will now be impossible to mark the limits of Upper Burma by means of a primary physical barrier such as the Irrawaddy watershed. One other feature of Men-kong I can only Mr Edgar, who had slept in the village, mention here. told me afterwards that he had seen there a number of slaves belonging to a dwarf tribe which he could not place amongst any known people. This is certainly a discovery of remarkable interest, and we may hope to hear something about these dwarfs from Mr Edgar himself before long.

We returned to camp for supper after an interesting day's sight-seeing, but I regretted that I could not start westwards in the wake of Captain Bailey who had, I was

told, set out for India only two days previously.

CHAPTER VIII

DOKER-LA-THE SACRED MOUNTAIN

In the evening I climbed down the steep river bank, and standing on the rocks had a much needed bath, though it was of course impossible to take a dip in the river. In the mountains the cold drenching rain discourages one from stripping even in summer, and in the arid gorges opportunities for bathing are few.

Stores were now running very short, a matter which, without being in the least serious, greatly affected my comfort, for I was altogether out of such luxuries as coffee, tea, biscuits (in lieu of bread), butter, jam, milk, and bacon, though I had still a few tins of meat for the journey across the mountains and was able to purchase butter and eggs at Men-kong.

On June 20 we started back, reaching Chia-na before twelve o'clock, but further the men would not go that day as they were bent on cooking a goat they had just purchased, and I had perforce to give in. Moreover Kin, who had been

ailing for a day or two, seemed very unwell.

On the following day we retraced our steps to La-kor-ah, halting at mid-day in a little bay where the limestone rocks receded from the river and a spring of clear and slightly warm water gushed out, filling an artificial bath and giving rise to an oasis of delicate ferns and moss in a grey-white world of rock. The life-giving stream was an obvious camping place, and the devout Tibetans, doubtless awed at the wonderful phenomenon of pure water welling out of the solid cliffs in this wilderness, had made obeisance to it by carving the sacred prayer and numerous other

inscriptions, some of them of considerable length and beautifully executed, on the surrounding rocks; and amidst these manifestations of piety I bathed.

Several pilgrims from Doker-la passed during the morning, and for some reason Ah-poh went nearly mad

with rage at sight of them.

We reached La-kor-ah on the evening of June 21 in glorious weather; and next day Kin was seriously ill. Curious purple patches had come out on his chest, arms, and legs, and I was baffled to know what was the matter with him; but as he complained chiefly of vomiting, I thought it likely enough that he had caught a slight chill, and having dosed him with brandy, I put a mustard plaster on his chest and made him wear a cholera belt I fortunately had with me. To stop at La-kor-ah, where we could get nothing, was useless, and I asked him to make every endeavour to travel.

The military official at Men-kong had kindly provided me with a pony for the return journey to La-kor-ah, but unfortunately I had sent the beast back on the previous evening, and here we could secure no riding animal for our invalid. However by feeding him on milk and soup, and administering frequent doses of brandy, we had the satisfaction of seeing him struggle pluckily through a hard

day, though he looked ghastly enough.

From La-kor-ah we ascended the stream by the pilgrims' road to Aben, a mean little village of about forty huts, where I was well received. All the way up through the gorges we found the cliffs decorated with prayers, pictures of Buddha, many of them coloured, and other artistic designs, some of the longest paragraphs being exquisitely carved in minute characters, but the familiar mani prayer in bold characters usually occupied the more prominent places. What monumental patience was exhibited here! for though the surface of the rock was smooth it was rarely flat, and whole paragraphs had been written inside natural cavities extremely difficult of access, even for a hand.

At Aben we obtained a ponderous yak to transport some of the baggage over the mountains, but riding animals could not be procured here either, though doubtless they existed. A little to the south-east lay the village of Boonga

where the Catholic priests were persecuted so terribly many years ago.

For a week we had tramped beneath a flaming sky between brazen valley-walls raked by a wind as from the mouth of Hell. Abruptly the weather changed again and ere we had ascended far into the pine and oak forests above Aben, surmounting a wonderful limestone gorge, the rain was once more drenching us through and through. Finally we dropped down beside the torrent again and pitched camp under a huge cliff, but there was no room to put up the tent and we huddled as closely as possible under the rock wall to avoid the rain, my bed being set up in the open. Soup and tinned meat had now to be prepared for Kin, who required careful nursing, and I had my hands full for the evening.

Looking due east up the valley we occasionally caught a glimpse of the K'a-gur-pu glaciers, from which this big torrent obviously rises, though hitherto the main stream has been drawn on the maps as rising in the south-east from Doker-la itself. The reason for the mistake is no doubt partly due to the confusion introduced by Prince Henri d'Orléans in calling the snowy range Doker-la, and partly to neglect of the snowy range altogether, so that, in order to account for the size of the torrent at La-kor-ah, its source has had to be placed some distance to the south.

Leaving the main valley next morning we climbed a spur and found at the summit the usual bundles of bamboo wands decorated with strips of paper and rags, but what was more odd still, there were ranged on the ground, on the rocks, in the grass, everywhere, rows and rows of empty tsamba bowls as votive offerings. There must have been scores of them.

Bearing away to the south-east so as to avoid the snow peaks, we pitched camp once more in the forest at an altitude of about 10,000 feet, with the prospect of crossing Doker-la on the following day.

I was now completely out of stores with the exception of some soups which I kept for Kin, who happily was feeling much better. I was still giving him brandy night and morning—though we were nearly out of that too—and

feeding him chiefly on lightly-boiled eggs, of which we had brought a moderate supply from Aben. It seemed to-night that I was destined to sup off tsamba, eggs, and brick tea, not a very satisfying meal at this stage of the journey, but Gan-ton came to the rescue with some toadstools and bamboo shoots, the latter being roasted by the simple expedient of throwing them into the fire and leaving them till, on stripping off the outer burnt leaves, the inside was found to be soft and succulent. As to the toadstools, a sort of morrell, I knew nothing about them and had to trust to Gan-ton's empirical knowledge of jungle produce; but he ate some himself, so that, unless his colour carried with it immunity from the effects of vegetable poisons, I anticipated no evil results. A minute but ferocious insect like a sandfly existed in the forest here and gave us a bad time, settling on our faces and wrists in hundreds, and biting us till they raised most painful bumps.

June 24 was our last heavy day, but I now felt very weak from lack of accustomed food, the continual change of weather, and sheer weariness, so that even the sombre and bulky yak easily kept in front of me. Gradually we emerged from the forest into a region of alpine meadow dotted with willows, and covered with beautiful flowers, such as yellow salvias, purple columbines, and masses of the red *Fritillaria Souliei*, which grew waist high. Craggy limestone cliffs rose on every hand, but the whirling mists

hid the view.

Lunch was taken under the shelter of some boulders amidst patches of snow, whither I was the last to arrive, feeling very bad. Suddenly there came a hail from one of the Tibetans just outside our little shelter, and everybody scrambled excitedly for the open and climbed on top of the boulder; sacred Doker-la had become momentarily visible through the driving mists.

We had now reached the belt of alpine grass-land or turf, also represented on the Mekong-Yang-tze divide, though the rainfall is not there sufficient to give rise to a definite belt of alpine meadowland. The ascent to the pass was as usual extremely precipitous, and nothing being visible from the summit save tantalising peeps through the evershifting cloud veil, I was glad to descend. A driving wind

beat the cold rain in our faces, baulking every attempt to start a fire and obtain a rough boiling-point reading. However, though there was now no snow on the summit, I think that the Doker-la must be a little higher than the Sie-la.

Why this mountain should be so sacred I cannot think, for there is nothing about it to stir the imagination. It is easy to understand people bowing in awe before the virgin peak of ice and snow to the north, and it is quite possible that on a clear day K'a-gur-pu would be readily seen; but Doker-la by itself, in comparison at least, looks rather mean,

though the weather may have biased me.

On our journey up we had passed several small parties of supplicants returning from a visit after adding their quota of rags to the prayer-scattering bamboo wands which crowned the pass, but autumn is the proper pilgrim season, and in October hundreds of them passed through A-tun-tsi. Still I firmly believe that it is K'a-gur-pu that really inspires them, though Doker-la may well be the easiest approach to a somewhat inaccessible peak. Tibetans do not mountaineer for fun, and even sacred Kailas is worshipped from afar.

This day's journey finally shattered the belief to which I had all along clung, namely that we were going to cross the snowy range, though our turning south-east on the previous day had made this seem very problematical. A rough precipitous descent finally brought us down to a deep valley in which flowed a big torrent, obviously another glacier stream from K'a-gur-pu, which could not have been very far to the north, and we halted for tea under the shelter of an enormous granite boulder, the rock on this side being mostly granite, in strong contrast to the quartz-bearing limestone on the other side.

Another thing worth noting is that the watershed is asymmetrically placed, being considerably nearer the Mekong than the Salween, nor are there here, in the arid region towards which we were descending, any barrier ranges. In the rainy regions we have already remarked that the streams flow from their source for some distance parallel to the main rivers, so that the main spurs are often parallel to the main range for some distance. In the arid regions, however, the

torrents flow directly down from the mountains, and the main spurs are always at right angles to the watershed and consequently the passage of the range is less fatiguing, though not necessarily any shorter.

We camped far down in the forest that night, and saw the stars shining overhead once more, both Kin and I feeling

very much better, though dead tired.

It may be interesting at this stage to institute a comparison between the plant formations on the mountain range we had now crossed for the second time and the Mekong-Yang-tze divide, where I had been climbing in May and

subsequently crossed several times.

The sequence of belts on the Mekong-Salween divide, starting from the Mekong, is roughly as follows:—(i) Grassland and bracken, with scattered pines, rhododendrons and so on, (ii) Forest, with fir trees and giant rhododendrons, numerous shrubs, and deciduous-leaved trees. In the shady gullies this temperate rain forest descends right down to the Mekong and Salween, (iii) Forests of birch and alder with dense undergrowth, (iv) Alpine meadow, (v) Alpine grass-land or turf.

Turning now to the mountains above A-tun-tsi, we find that two of the above belts, namely birch forest and alpine meadow, are entirely wanting; that the larch becomes an important constituent of the upper forests on north-facing slopes; and that a new element, namely the scree

flora, makes its appearance.

A full consideration of these facts is beyond the scope of a story of travel however, and it will suffice to say that these differences are directly or indirectly traceable to the difference of rainfall on the two ranges of mountains; that the composition of the forests on the two ranges differs more than the composition of the alpine flora on account of the greater importance of rain to forest land than to grass-land; that in the alpine meadow of the Mekong-Salween divide are to be found several plants, particularly Liliaceae, which are not found on the Mekong-Yang-tze divide; and finally, that the limit of plants is substantially lower on the former than on the latter, in accordance with the lower snow-line, the extra ground available on the Mekong-Yang-tze divide being favourable for the production

of new species which, so far as I could make out, are-

peculiar to that range.

On the following morning we reached Londre, where we learned that only the day before two Chinese soldiers had arrived in search of us, and not finding us there had crossed over to the Salween, happily by the Chun-tsung-la, a pass we were destined to cross five months later, located between the Sie-la and the Doker-la.

It appears that the official at A-tun-tsi had heard I was no longer at Tsu-kou, whereupon in a much perturbed state of mind he had at once sent soldiers to recall me from the Salween, whither he rightly guessed I had gone. He also wrote to the Viceroy at Yunnan-fu, who complained to the British Consul that the Chinese could not be responsible for my safety if I persisted in travelling beyond their jurisdiction. It is pleasant to be able to point out however that these representations were made entirely in good faith, and that the officials with whom I came in contact treated me with unfailing courtesy throughout.

It is but a short distance from Londre to the Mekong along the torrent which, now in full flood, poured through a fine gorge into that river. The Mekong was rising every day, its waters of a chocolate-red colour, derived from the red sandstone of the plateau, whereas the Salween was

much more yellow.

A few miles higher up the river we reached Yang-tsa, and crossing by the rope bridge camped on familiar ground once more. How delightful it was to feel warm again, though the wind increased in violence throughout the evening till it blew a local gale! Then too there was unlimited fresh yak milk waiting for us, besides butter

and eggs.

It is necessary of course to clamour for milk before milking time, otherwise the Tibetans, who have no use for it as a beverage, can only supply you with sour curds in lumps, like cream cheese, a great delicacy with them but not popular with me. Moreover, if they draw the milk into their own utensils, which are already filthy with the clotted cream of ages, and ever will be, seeing that they are never by any chance washed, it goes sour almost immediately, so that the operation needs to be superintended

by one's own men. As a matter of fact their clotted milk is not unpalatable, if looked upon as cheese and not milk; but the uses of cheese in cookery are somewhat limited. Fresh Tibetan butter on the other hand is excellent, though combined with a good deal of hair, from being made by the simple process of kicking milk around in a yak-skin bag. Such luxuries as fresh milk and butter can be better appreciated when one remembers that in China neither butter nor milk can be obtained, because the Chinese consider it disgusting to milk cows, and one therefore has to subsist on the tinned varieties.

Two days later, that is on June 27, we reached A-tun-tsi, the journey having extended over twenty-five days, and been fairly successful in results. As in the corresponding region of the Salween valley, the weather remained fine coming up through the arid region of the Mekong, though all day long heavy masses of cloud rested on the mountains to east and west, and the usual local wind got up at mid-day without ever affecting the movement of the clouds. Never more than a few drops of rain at a time—the dregs from the cloud-fringe—fell in the valley itself at this period.

My landlord had gone away to get married during our absence, the ceremony consisting of fetching the woman and bringing her to his house, no doubt after exchanging presents with the parents. He turned up the day after my arrival, driving several donkeys laden with supplies, chiefly presents from his father-in-law. Behind him came his wife, dressed, I imagine for the first and last time in her life, in new and clean clothes, with a friend on either side holding her hands, while she coyly looked at the ground. Escorting the party came a crowd of shouting children carrying bunches of flowers, while the villagers stood around in groups to see the triumphal entry. the evening there was a horrid orgy directly under my room, and everybody got gloriously drunk. Two days later I was called in to prescribe for the bride. On the whole, however, it was nothing like such a popular holiday as a funeral we had in the village a few months later, which was attended by the whole community.

My friend Chao, the local mandarin, called on me the day after our return and found me busily engaged amongst

numerous plants spread out in all directions, which probably eased his mind. I really think he was genuinely pleased to see me safely back, and though he grumbled at my going, saying that the Lutzus were wild and bad men, I heard no more about the matter. However, he questioned me closely about my future movements, though as I did not know much about them myself, I was unable to enlighten him.

CHAPTER IX

ON THE ROAD TO BATANG—THE LAST TOWN IN CHINA

On my return from the Salween I spent nearly a month in A-tun-tsi climbing the surrounding mountains and ex-

ploring the neighbouring valleys for plants.

Every day the south-west winds blew heavy masses of cloud across, but except at night, when the valley frequently filled with mist to the accompaniment of a steady drizzle, the rain which fell was generally in the form of passing showers swooping suddenly down from the west ridge and passing as quickly. In the month of July there were only five rainy days, when it rained for six hours or more. On the mountains all round us, however, heavy clouds usually rested throughout the day, lifting for brief intervals only, sometimes with astonishing suddenness. The high range to the east was frequently covered in the evening by a long white cloud-cap, cut off sharply below, which rose and fell like the tide, exposing more or less of the mountains. Pei-ma-shan to the south-east was always obscured and drenching rain fell there every day, frequently to the roll of thunder, while bright sunshine prevailed at A-tun-tsia local peculiarity due to the hot dry winds sweeping directly, up from the Mekong valley.

On June 30 Kin started for Wei-hsi to get me some silver and post my mail; I did not expect him back for three weeks at least. On July 5 Gan-ton also departed, as he wished to return to the bosom of his family at Tsu-kou for a week. Unfortunately he played me rather a shabby trick by staying away three weeks, so that for the rest of the month my journeys into the mountains had to be made



Primula psyudesikkimensis growing at 11,500 feet near A-tun-tsi



alone, it being impossible to get men so late in the season. The patches of alpine meadow land which occurred here and there along the streams between 12,000 and 14,000 feet were now gay with flowers, conspicuous amongst which were Primula pseudosikkimensis and numerous species of Pedicularis with immensely elongated corolla tubes. This latter genus is indeed richly represented in these mountains, ten or twelve species at least occurring commonly, though in very different habitats—in marshes, along the edges of woods, on barren rocky slopes, and on the alpine grassland. The Himalayan region is also rich in Pedicularis, as it is in so many of the Western China genera, and indeed the continuity of these two floras, to which Hooker long ago drew attention, is being yearly emphasized.

To the summit of the eastern watershed was a long climb but I made it several times, finding numerous plants interesting both from a botanical and horticultural point of view. Immediately above A-tun-tsi came a shrub belt consisting almost entirely of scrub oak on the slopes exposed to sun and wind, but on the moist shady slopes exhibiting a rich assortment of Cotoneaster, Salix, Rhododendron, Populus, Hippophaë, Philadelphus, Deutzia, with many beautiful roses such as R. sericea, and a considerable herbaceous undergrowth. This undergrowth included, besides the plants previously mentioned, a yellow violet (Viola Delavayi), the Podophyllum already referred to, whose big pear-shaped fruits (which take four months to ripen) were beginning to turn red, and a very sweet-scented Pyrola (P. atropurpurea).

Above this was a narrow forest belt of spruce, but including also larch and birch trees on north-facing slopes, where the snow melted more gradually; and above this again came the shrub belt of the alpine region, composed almost entirely of scrub rhododendron and a creamflowered potentilla (P. fruticosa). This ended abruptly on the screes of the exposed slopes, but elsewhere it dwindled gradually into alpine grass-land, rich with saxifrages, gentians and other flowers, extending to about 18,000 feet. Up here, at 17,000 feet, springing from amongst huge blocks of grey stone, I found the glorious Cambridge blue poppywort (Meconobsis speciosa), one of the most beautiful

flowers in existence, several Primulas, and a number of highly adapted plants inhabiting the screes and the icy puddles of water which trickled from the melting snow.

Two varieties of Lilium lophophorum found on the alpine grass-land at 14,000-16,000 feet were peculiar in that the corolla was pendent, with the tips of the petals cohering. but the fruit erect. These flowers open in the rainiest month, and the reason for their being pendent may well be to preserve the honey and pollen, to which insects have access through the slits between the corolla lobes. The fruit, on the other hand, ripens during the dry autumn, and stands erect on a resilient pedicel, the winged seeds being shaken out in the gales and carried far and wide. arrangement of pendent or horizontal flowers is very conspicuous in the summer flora, especially on the very wet Salween-Mekong watershed (e.g. Primula Souliei, Meconopsis pseudointegrifolia, etc.); but the autumn flowers on the Yang-tze-Mekong watershed (saxifrages, gentians and so on) stand erect, so that I regard it as an adaptation to meet climatic conditions.

From the time the snow disappears towards the end of May till the grass withers and winter sets in about the end of September, the herdsmen camp in the high mountain valleys, fattening their flocks of sheep and yak on the rich alpine grass-land, from 14,000 to 16,000 feet above sea-level. Once or twice Gan-ton and I had been caught in heavy rain storms when high up in the alpine pastures, and had resorted to these herdsmen's tents for shelter and refreshment.

A small ridge-tent of brown hemp cloth, the sides pegged down and weighted with stones, one end built against a rock or stuffed up with branches, the other open to the winds—this is the home of the Tibetan herdsmen for four months of the year, while his food consists of tsamba, tea, butter, and sour milk. There is just enough room for three or four to squat cross-legged round the fire in the middle, which fills the tent with pungent smoke. The remaining space is occupied by the leather bags of tsamba, the wooden cylinders for making tea, and the wooden milk-pails, so dirty with clotted curds that, as I have already said, milk drawn into them rapidly turns

sour. The men dress in the skins of animals and huddle by day round the fire, sleeping at night on beds of pine-branches. An altar is always rigged up at the far end of the tent, and here a single butter lamp splutters, faintly illuminating small offerings of tsamba or barley grains, and clay ikons of the crudest form, daubed with pats of butter.

Kin one morning watched a herdsman rush out from a tent with his long gun, kneel, and fire at a dark object which was moving coolly up the mountain slope with a lamb in its mouth. It was a leopard. These marauders, which stalk the mountains in broad daylight, are a constant source of alarm to the herdsmen, though they never dare attack any but isolated animals. At night they descend to the lower valleys, several having been reported in the neighbourhood of A-tun-tsi while I was there, and in the winter they come right down into the village, though I never saw one myself. Deer, however, and precipice sheep I saw on several occasions, and sometimes when camping in the forest I would awake in the dead of night to hear Ah-poh barking furiously at the entrance to my tent, as some denizen of the mountains prowled by.

Meanwhile Kin had returned after an absence of exactly three weeks. He brought me silver and welcome letters, and reported heavy rains in the Mekong valley below Tsu-kou, several of the rope bridges being under water and im-

passable.

On July 21, a great Mohammedan festival known as the ho-pa-hwei was held in A-tun-tsi in honour of a certain Ming Emperor, called Pei-wang or the White King, who

came from Tali-fu.

Outside many of the houses, torches ten or twelve feet high had been built by tying bundles of pine-sticks in tiers round a central pole, the entire structure being decorated with flowers, branches of green leaves, and paper flags, making a gay show. As soon as it was dark crackers were fired as a signal for the revels to begin, and immediately afterwards the big torches were lighted at the top; and looking down the street one saw by the light of these beacons which smoked and crackled on either side, the black figures of people dancing.

Everyone was out of doors. Processions of boys formed up and ran round the village, and so along the hill paths above the cultivated slopes, waving fire-brands and whirling round glowing sticks snatched from the torches. The principal Mohammedan merchants had decorated and lighted up the family altars, and engaged musicians to beat drums and cymbals to exorcise all the devils which had gathered during the year, and the din went on all night. Large grotesquely-swollen lanterns swung to and fro in the evening breeze, feasting was carried on till a late hour, and everybody got very drunk in honour of the White King. Altogether it was a most successful carouse.

Next day we started for the pass on the road to Pangtsi-la, as I wanted to climb the lower slopes of Pei-ma-shan, the big snow-mountain on this watershed. The difference of climate should, I thought, make a great difference to the flora, but here I was mistaken, as it subsequently turned out. The same plants flowered on the Pei-ma-shan range one or two months earlier than on the mountains in the immediate neighbourhood of A-tun-tsi, and though in the course of time the cumulative effects of this early flowering may differentiate the floras of the two districts—distant only six miles as the crow flies—by bringing them into contact with different sets of insect visitors, I did not observe that this had as yet happened.

It was beautiful weather when we left, but it was not long before we got fairly into the rainy region, and drenching showers fell throughout the day. Riding along in front of the slowly-moving line of porters, thoroughly wet and chilly, I watched for my friends the animals, and noted the changes in the vegetation as we ascended. I saw a fine badger, in spite of the daylight, dash out from the forest, and later a chipmunk running about in a tree, but there was little else and birds were as usual scarce.

There were many beautiful shrubs in flower, however — Viburnums, pink and white roses and hydrangeas, and various species of Prunus, Ribes, and Rubus, with great splashes of white clematis trailing everywhere, and by the torrents a rich undergrowth of ferns, including the maidenhair. Tall purple-flowered meadow-rues and brilliant blue monkshoods grew by the wayside, and on the drier

slopes were stately crimson spikes of *Epilobium*, with an occasional white-flowered specimen.

It was dusk before we found a convenient camping-ground by a small stream. Everything was sodden, we were still some distance from the pass, and there was no prospect of getting a good fire or having anything hot to drink for some time. However, we put up the tents, tethered the ponies, and did what we could with the damp firewood.

Next morning, leaving the men in camp, I climbed to the top of the pass, which crosses the Mekong-Yang-tze watershed at 15,800 feet, and from there ascended the ridge, which runs south-west towards Pei-ma-shan. A great plateau country covered with dwarf rhododendron spread away to the south towards the snow mountains, which were entirely obscured, and in the shelter of the screes vegetation extended to about 18,000 feet, where various primulas, saxifrages, and *Meconopsis speciosa* grew scattered amongst the rock fragments.

On the other flank of the pass, however, bare screes faced the south, the belt of dwarf rhododendron ending a few hundred feet above the pass, while above towered the curiously fretted limestone buttresses of the divide. Throughout the day a keen wind blew down from the plateau bringing showers and mist, sometimes in the form of a drizzle, sometimes in storms of chilly rain.

The valley facing A-tun-tsi which we had ascended owes its elevated tree-limit (15,000 feet) and the presence of such trees as the larch, to the local down-valley rainbearing wind which drenches the valley almost every day throughout the summer, while the A-tun-tsi valley itself is swept by the direct up-valley wind from the Mekong. In the mountains here were many signs of previous glaciation—stair-way structure in the valleys, piles of angular scree material having the appearance of moraines at the valley heads, and a curious plateau structure at the foot of the peaks dominating the valleys, across which the collecting streams wandered independently, sometimes forming small lakes, before joining to dash down the stair-way. But the well-defined rock basins to be described later were wanting.

South of the pass the range was capped by granite and metamorphic rocks, in strange contrast to the limestone met with all along the summit of the range northwards.

The weather showed no signs of improvement on the following day, and I went up the nearest valley to the north in order to examine the scree flora of the south-

facing slopes.

These screes support a few highly specialised plants, which exhibit morphological peculiarities deserving of mention. Their root-systems, which are of immense length, are often strengthened with T-shaped bracing pieces, while their stems have scarcely-developed internodes. leaves too are either succulent, or hairy, or red; and occasionally peculiarities are noticeable in the arrangement of the inflorescence. I also found several plants assuming the cushion form, a habit commonly met with in deserts such as those of Algeria, including a species of Potentilla, a Lychnis, Diapensia Bulleyana, and other species of Carvophyllaceae. But these dreary screes were practically devoid of plants suitable for horticulture.

Above the valley head dismal wastes of rock rose steeply to the limestone towers crowning the ridge, but the valley floor was also strewn with big blocks of a quartz breccia, cliffs of which were visible lower down. Late in the afternoon I returned to camp, and a glorious evening set in; so cold was it in the night, however, that even inside my tent

the iron supporting-pole was wet with dew.

I had injured my foot on a rock some days previously, and as it refused to heal but got rather worse, and was now very painful, I decided to break camp and give it a day's rest at A-tun-tsi.

Starting early next morning and leaving the men to pack up and follow, I rode into A-tun-tsi at one o'clock, to find the village bathed in brilliant sunshine; yet in the afternoon the sky grew black over Pei-ma-shan again, and we heard the thunder rolling and rumbling over that stormriven mountain. At sunset the peaks, clearly outlined against the blue-black sky, presented an extraordinary appearance, as though recently swept by a terrific snowstorm, for they glowed with a pale reddish-gold tint, which in contrast to the darkling sky and surrounding mountains.

now in deep shadow, looked like snow. Then the stars came out in their myriads, and distant lightning could be seen flickering behind Pei-ma-shan.

July 27th, two days later, was a perfect day. From the time the sunlight flooded the valley at ten o'clock till it sank down behind the lonely monastery at four there was not a cloud in the sky.

In the evening Gan-ton, whom I had given up as a deserter, arrived unexpectedly from Tsu-kou, bringing me a message from the French priest; and as I read it I realised that an entire change of programme would immediately be necessary. The message read as follows:-

"The English are in Lhasa, the Chinese soldiers have capitulated....A British officer has gone in from Y'a-k'a-lo on a secret mission. The Chinese are furious and swear to exterminate every Englishman. I fear you will be killed before the end. You must leave A-tun-tsi at once."

The situation demanded action, not thinking over. But what? The story seemed on the face of it improbable, yet it was not a message to be entirely disregarded. To sit still and wait for something to happen was against all my principles, and I decided to follow this advice and leave A-tun-tsi immediately.

But there was no object in going south down the Mekong, for if true, the story would be known throughout southern Yunnan long before I could reach T'eng-yueh, while on the other hand if it were not true, I ran the risk of ruining a year's work for nothing. I made up my mind therefore to go still further into the country, and within ten minutes of receiving the message I told the men that we were starting

for Batang the first thing in the morning.

The advantages of going north were obvious. first place, Batang being on the main road to Lhasa, I should there hear the truth of this wild rumour from Tsu-kou, if indeed there was any truth in it. Again, there were several European missionaries at Batang, and it would be best in the event of trouble to band ourselves together, while as regards routes Batang perhaps offered a greater choice than did A-tun-tsi. Finally, by going north I should be keeping within the chosen area for botanical work, and might reasonably hope to find many of the plants I had already observed on the Mekong-Yang-tze watershed; so that in the event of my return to A-tun-tsi being delayed I might still secure seed

of many species already noted.

Everything was packed that evening, and Kin went down to the yamen for ula, telling the official that I was going into Ssü-chuan. No objection was raised, and I dare say the official was rather glad to get rid of me for a bit, though he showed no sign of having heard anything about Tibet. I told the men nothing, merely saying that I was going to Batang, and would be back in two or three weeks. Gan-ton was to accompany me, and travelling very light I hoped to do the eight stages by the direct road in five days, Kin following more leisurely with the camp equipment as soon as he could secure the necessary animals. The bulk of my luggage was left in charge of Sung, who was deputed to look after it till my return.

I had received the message at five o'clock in the afternoon and by eight o'clock next morning we were on the road to Batang, At such short notice the yamen had only been able to provide me with one pony, and the light loads were carried by three porters, a solitary soldier also accompanying us as escort. I brought with me only a little bedding, and one box, containing such necessaries as my passport and cards, a map, aneroid barometer and compass, a medicine chest and flask of brandy, a few tins of meat and other stores, silver, and photographic outfit. Finally I slipped a heavy Colt automatic pistol with spare magazine

and cartridges into my pocket.

Crossing the spur just above A-tun-tsi we descended the long winding valley through beautiful woods to the village of Adon, situated at the point where a mountain torrent, after flowing southwards for some distance, suddenly turns westwards and breaks through a deep gorge in the barrier range to reach the Mekong below. They were reaping the wheat and barley here already, and the pears and apricots were fast ripening, for Adon is between two and three thousand feet below A-tun-tsi.

At the house of the chief we stopped to change the *ula* and have lunch, ponies being supplied in place of the porters. The old chief had been beheaded by the Chinese after the 1905 troubles, and his son, a lad of fourteen, was now at

school in A-tun-tsi, though the big house was still kept up. The chief of the next village was also rather juvenile in years, if not in experience, for though only sixteen and still a schoolboy, he already boasted two wives.

The large Tibetan farm-houses, or manors, of the mountain villages are always widely separated, and towards the limits of habitation in the high plateau valleys are completely isolated. The thick walls are built of mud, stamped hard and whitewashed on the outside, but the supporting-pillars for the roof, the floor beams, window-frames, and partition walls are of wood. It is curious that though glass is unknown, excellent window-frames should be built.

On entering from the outer courtyard one finds oneself in a large gloomy stable occupying the entire ground floor; to the wooden pillars cows and ponies are tied, and what light there is comes from a square hole in the roof, through which we climb up a notched tree-trunk, in place of the more familiar ladder.

Above is a verandah, and from it the spacious rooms open—the big kitchen and living-room of the family, guest-rooms, prayer-closets, store-rooms, and so on; but the kitchen, as the most important room of the establishment, is by far the most interesting.

At one end is a big open hearth on which a wood fire is blazing, the smoke finding its way out by a square hole in the roof or through one or two small windows. Every beam and rafter is black with soot, but as the Tibetans always sit on the floor, never on benches, they are not inconvenienced by the smoke curling up above them. Rows of copper kettles and brass jugs stand on the shelves, several bamboo spears are leant against the central wooden pillar, an iron pot bubbles over the fire, and tall brass-bound wooden cylinders in which tea is made as already described, stand on the floor. Roof, walls, and floor are hideously filthy with dust and soot, but the brass-work is kept surprisingly clean. Behind the fire the wall is often crudely decorated with Buddhist designs in whitewash, and here in a dingy alcove is arranged the family altar, with small metal vessels full of grain, and butter lamps burning dimly. There is no furniture unless one or two rough window-seats may be described as such, and no other decoration, yet, in the darkness which hides the dirt, the size of the room and its severe simplicity give an imposing effect. It is warm in winter and cool in summer, though the myriads of flies make it extremely disagreeable. The roof, which is flat and paved with a hard mud floor, is reached through another smaller aperture placed to one side, and the roof-garden, so to speak, is used for threshing corn. I use the term roof-garden advisedly, because I have sometimes seen boxes of flowers lining the low parapet which surrounds it, though this is not common.

An open shed in which the corn is harvested extends along one side, and a dummy chimney into which are thrust numerous bamboos bearing prayer-flags and strips of white

paper or silk decorates one corner.

These big houses as a rule harbour more than one family. The architecture is what might literally be described as severely perpendicular, and they are built primarily I imagine to withstand and keep out the howling winds which make life on the plateau so rigorous. Many of them must be extremely old—I never saw one in course of construction, and the timbers appear so well seasoned that they should be eminently capable of standing the ravages of the weather.

In the evening, just as the rain began, we took shelter in the last house up the valley, and I found myself installed in the open shed on the roof, where I was surrounded by sheaves of corn. A big wooden comb stood on the ground, and women had been busy pulling the wheat through this in order to separate the heads from the stalks preparatory to threshing.

Starting at six o'clock next morning we climbed all day, reaching the head of the pass known as the Tsa-lei-la (15,800 feet) towards evening; there was a fine view of the Salween divide and K'a-gur-pu to the south, but to the north the

sky over Batang was a lowering blue-black.

Crossing this pass I was for the first time struck by the great difference of vegetation exhibited by valleys facing north and south, as well as by the even more striking differences, both botanical and geological, between the Mekong-Yang-tze and the Mekong-Salween watersheds.

Ascending the south slope we found at the limit of trees spruce and *Juniperus*, the latter not like our English juniper bushes, but big trees. These ceased at an altitude of little over 14,000 feet, and alpine grass-land, with narrow strips of dwarf juniper under the protection of the rocks, extended to the summit. On the north-facing slopes, however, spruce and larch were the limiting species, extending to within 600 feet of the summit, to be succeeded by a thick belt of dwarf rhododendron which scarcely died out before the summit was reached, the belt of alpine grass-land being correspondingly reduced.

This marked peculiarity of south-facing valleys is due, firstly to the more rapid melting of the snow in spring, whereby the only available supply of water is removed at the very outset of the vegetative season, and the unprotected young shoots suddenly exposed by the rapid stripping off of the warm snow blanket; secondly to the havoc wrought by the dry, rainless local winds to which the south-facing valleys are liable throughout the summer.

Looking eastwards from the pass, there came into view an extraordinary wall of limestone towers and buttresses crowning the Mekong-Yang-tze divide. These splintered cliffs and bare screes testified to the weathering work performed by dry denuding agents—a wide range of temperature with rapid alternations, the effects of wind, the splitting action of frost and so on—and were in strong contrast to the graceful pyramids carved out by water erosion on the far more rainy Mekong-Salween watershed.

This chain of limestone towers can be traced from Pei-ma-shan in latitude 28° 15′ to latitude 29° and between these two points we crossed the watershed by four different passes. Indications of previous glaciation were everywhere visible, and there can be little doubt that this ridge has had its rainfall enormously curtailed here by the very considerable elevation of the Mekong-Salween watershed further west, which thus, as previously stated, intercepts the bulk of the monsoon rains from the south-west.

The descent to the Tibetan village of Tsa-lei occupied nearly three hours, and it was dark when we arrived after fourteen hours in the saddle. Tsa-lei, situated at an altitude of nearly 13,000 feet, is built on the edge of a small mountain-flat which has evidently been formed by the silting up of a lake. Numerous torrents converging on to this grassy pocket have thrust out alluvial fans on which grow dense thickets of *Hippophaë rhamnoides*, a very characteristic formation, for this tree grows along all the more sluggish streams of S.E. Tibet, often in dense thickets.

It felt very cold in the night at this altitude, for the huts were of pine logs with shingle roofs, such as the Lutzu build; indeed all up the Mekong valley, even into Tibet itself, this style of architecture is adopted by the

poorer people.

Though we were up at five next morning we did not get off till nine, for all the animals were up in the mountains for the summer, and we had the utmost difficulty in securing two ponies and a yak. These ponderous yaks trudge along at a terribly slow pace, but they have their advantages in the summer at least, when swollen torrents have to be crossed. More than once I thought my pony would be swept away by the rush of water, when my feet were only just awash, but the stumpy-legged yak, though he dipped his loads every time, swept through the water like a snow-plough.

The Garthok river, a tumultuous red flood flowing through an arid gorge, was reached just as a terrific rainstorm began, and though we continued our march till dark, the morning's delay and a good deal of time wasted in changing the *ula* at mid-day considerably curtailed the stage. Crossing the river by a most crazy wooden bridge we stopped for the night at a small village on the opposite bank, and were no sooner inside the nearest hut than it again began to pour with rain, continuing without inter-

mission all night.

After supper as I lay on my mattress in the tiny room allotted to me writing up my journal by the light of several pine-wood chips blazing on a stone, in stalked three Tibetans, all of them over six feet high. Their coarse gowns were tied up above their knees, the right shoulder thrust jauntily out exposing the deep muscular chest, and they were bootless. One of them carried a fiddle, consisting

of a piece of snake-skin stretched over a bamboo tube with strings of yak hair, upon which he scraped vigorously with a yak-hair bow.

There was little enough room, but my visitors soon lined up, stuck out their tongues at me in greeting, and began to dance, to and fro, up and down, twirling round, swaying rhythmically to the squeaky notes of the violin (there were only about two notes on which to ring the changes), and singing in high-pitched raucous voices. Presently three women joined in, all tricked out in their best skirts and newest boots, with cloaks flung negligently over their shoulders. Thus they went through many of their national songs and dances, and in justice to my sex I must say the men danced with more skill and grace than did the women, though of course it is easier to dance heel and toe, bare-footed like the men, than in the clumsy boots and skirts worn by the women.

I can still picture the scene in that dim little smokeblackened room, the rain lashing down outside, and the roar of the river just below us, while I lay back on my bed enjoying it hugely, all cares forgotten. Those great giants of men looked strangely weird in the flickering light of the blazing torches which flared up and burnt down alternately; the wail of the fiddle rose and fell, the voices blended, and broke, and ceased, and still they danced on, up and down, to and fro. They danced for two hours in all, and in return for the little present I gave them would willingly have gone on till midnight had I not told Gan-ton I wanted to go to sleep.

The Chinese, so far as I know, have no country dances like these, indeed they do not dance at all, and would consider any such mingling of the sexes on terms of equality highly improper. Even in the theatres women are not allowed to act with men, their place being taken by men

dressed for the part.

At breakfast next morning I was twice startled to hear the rattle of falling rocks, and looking across the ravine I saw a cascade of bouncing boulders pouring down the steep cliffs into the boiling river, just where the road passed underneath. It was still drizzling when we started at seven o'clock, and we hurried the animals one at a time past the danger zone, where the path had been ploughed up by the falling rocks. Following up the arid gorge of the Garthok river till mid-day we finally struck up towards the plateau, passing through a country of red sandstone, much dissected by torrents, which flowed in deep straight-sided gullies. At the village where we halted for lunch was a small lamasery, much decayed.

The hill sides here were very barren, probably visited by rare but furious rainstorms, which, leaving little time for the water to sink into the soft sandstone, tear deep rents in it, and flowing into the Garthok river below, colour it a light chocolate red. This sandstone forms a very important feature of the scenery in S.E. Tibet, and I traced it right across the gently undulating plateau

country which I traversed

The lower mountain slopes were strewn with boulders of harder rock, evidently carved out in situ. Sills of this rock, a closer-grained sandstone, or perhaps an iron-stained limestone, stood out boldly in many places, forming conspicuous ledges, and being well jointed, they often exhibited an incipient hewing into separate blocks. Cliff sections sometimes showed large boulders embedded in the soil, and all doubt as to their origin was removed when I saw blocks of stone only recently detached from a sill lying about in all stages of exfoliation from cubes to spherical boulders. The obliteration of Tibetan inscriptions cut on way-side rocks, many of which were certainly recent, since the colours in some cases had not had time to be effaced, testified to the softness of the sandstone. Higher up in the hills trees appeared—willows, Thuja, Hippophaë, and so on, with patches of grass-land and fir forests.

Later in the afternoon it began to rain with amazing violence, the slopes streamed with water, and the ponies slipping dangerously on the slimy red surface, we had to go dead slow. At six o'clock we reached the miserable village of Chia-ni-ting utterly drenched, and took refuge in the largest house we could find. It was so cold that I was glad to have a fire, but it went out during the night, and being unable to sleep I got up at half-past three and roused Gan-ton, who set about preparing breakfast.

Plate XXIII



Sunset over the Yang-tze; looking north to Batang from the edge of the plateau

Presently our soldier, who had slept like a Trojan, came in rubbing his eyes, thoroughly disgusted at the early start contemplated, but like the good fellow he was, he made himself useful and we started once more at five o'clock.

The misfortunes on the third day had lost us a lot of time and it was now impossible to reach Batang in five days, but a big effort might bring us there on the sixth day, which was good travelling, for it is eight mule stages from A-tun-tsi by this road.

We found it bitterly cold as we scampered over the plateau on that raw misty morning of July 31, 14,000 feet above sea-level. To the west, the low rolling hills stretched away as far as the eye could reach, brilliant green turf, red sandstone cropping out here and there, and patches of vivid blue where some Boraginaceous flower grew in dense masses. Hundreds of little pikahares darted into their burrows as we rode along, and, in spite of the severe cold, the day promised to be fine. Down in the valley below were meadows of flowers—blue salvias, monkshoods, and borages, crimson and yellow Scrophulariaceae, and various other plants, but I saw nothing exceptional here.

We changed animals no less than five times in the course of the day, wasting a considerable amount of time, but nevertheless we rode on till nine o'clock at night, by which time we had reached the Kin-sha, or Yang-tze. Never shall I forget the first view of that noble river as we climbed the last spur and looked northwards over the trees towards Batang. The sun was down, and over the purple mountains great puffs of radiant cloud rested, scattering the dying light; for miles we could follow every twist of the valley, marked by a ribbon of flashing silver, which had still 3000 miles to flow before it reached the ocean. The descent occupied two hours, and the abrupt change from the bitter cold of the rain-swept plateau which we had experienced in the morning to the hot breath of the wind blowing up this gutter, was one of the many extraordinary things in this extraordinary country.

On the way down to the Yang-tze I came across the beautiful scarlet *Androsace Bulleyana* with dense heads of flowers, growing in the very driest places, and the rocks of the main valley were covered with the lovely asphodel,

Eremurus chinensis, sending up tall spikes of densely-packed white flowers from a rosette of bayonet-like leaves.

Gan-ton and I were in excellent spirits as we rode along the narrow winding path by the light of the young moon, and in spite of nearly fourteen hours in the saddle he began to talk of Lhasa, five weeks' journey west of us, and asked whether I would like to go there! Down below in the darkness the river could be heard booming over the rocks, and the raging wind from the south grew stronger and stronger, though it did little to cool our parched skins. At last after the moon had set, we saw lights ahead, and going now very slowly in the darkness we came upon a group of houses and quickly gained admittance. body was asleep round the dying fire in the big kitchen, but Gan-ton turned them out, and they gave me a room and some hot milk, blinking and rubbing their eyes as the pine torches fizzled and blazed up. I turned in soon afterwards, but finding the sudden heat rather trying, I had no difficulty in getting up at half-past three next morning, when the air outside was deliciously cool.

We were off at five, at which hour the deep valley was slowly filling with a sickly grey light; the wind, which had gone on increasing in violence till midnight had then ceased abruptly, and everything was very still. The size of the Yang-tze now impressed me greatly; the Salween and Mekong looked puny compared with the storm of water which came smashing down over some immense boulders where a heavy landslip had choked its bed. In winter the river would certainly shrink a great deal, but even so its source must be many hundreds of miles from here, and it is undoubtedly as regards length the first river in Asia. Arid as the valley was, the herbaceous vegetation seemed richer than in the Salween and Mekong gorges. of Androsace, Eremurus, Allium and other Liliaceae, two species of Clematis, one a small erect shrub with white flowers (C. Delavayi), the other a twiner, but often growing erect or procumbent on the sand dunes where no support was available (C. splendens), were common, in addition to other plants peculiar to these semi-desert valleys.

There being no rope bridges over the Yang-tze, we crossed in a big scow propelled by clumsy oars and a huge

stern-sweep, being washed down a quarter of a mile during the passage. Then came a long hot ride as the sun rose higher and the valley became more and more shut in. In the afternoon we left the river and crossing a high spur looked right down on to the little mountain plain of a few hundred acres, where Batang stands. There were numerous caravans coming in and the road was blocked with mules, but Gan-ton and I, dashing ahead, rode into the city at five o'clock.

Numbers of Tibetan girls and priests were lounging about, gossiping and washing their clothes in the stream, as we crossed the little stone bridge and rode up the steep cobbled street to the mission house; and every one stared at us in surprise. We had covered the 180 miles of mountain road in six days.

CHAPTER X

ACROSS THE CHINA-TIBET FRONTIER

The first person I sought in Batang was Mr Edgar of the China Inland Mission, to whom I confided the disquieting rumour which had reached me at A-tun-tsi. He had heard nothing of it, however, and everything was going on normally. Nevertheless after tea we went round to see the French priests, who should know if anybody, since the story had originally come from one of their number; but they too denied all knowledge of the matter, and it was obvious that there had been a mistake. We then telegraphed to the English Consul at Chengtu, but no answer had come when I left four days later, though subsequently the Consul wired back that there was no truth in the rumour.

Meanwhile I was the guest of Mr and Mrs Edgar, and enjoyed a well-earned rest. We talked geography till far into the night and it was now that I learned who were the mysterious Europeans at Men-kong before me. Several months later we heard how Captain Bailey had successfully crossed to India, and at the same time gathered the foundations of the strange story from Y'a-k'a-lo, which

may be interpreted as follows.

It appeared that Captain Bailey had with him a Chiarung tribesman whose knowledge of Tibetan was of the scantiest. This man had been sent back to China from the borders of the Mishmi country, and while talking volubly of the prowess of his master had so mixed up his tenses that the story of how Captain Bailey had been to Lhasa with the British Expedition acquired present significance. This of course is only a surmise, but it accounts for the facts.

Moreover this Chia-rung tribesman seems to have been of a highly original turn of mind, for after dashing through to Men-kong, exclaiming wildly all the way that he had been ordered to annex the country for Great Britain, he so scared the officials in Y'a-k'a-lo with his strange tales that they began to suspect he had murdered Captain Bailey; and no sooner did he get back to Batang than he was clapped into prison, where I believe he lingered for a month.

Batang is situated at an altitude of 9400 feet, and the little plain being closely invested by mountains grows very hot in summer, though it is not cold in winter. A gentle breeze frequently sweeps down from the high ranges to the north-east and fans the parched earth, but on occasions the valley is swept by fierce gusts blowing up the Yang-tze. The population now comprises between 400 and 500 families, and since the rebellion of 1905 from being almost exclusively Tibetan, with all the power in the hands of the lamas, it has become very largely Chinese, and the power of the lamas is temporarily broken. On the other hand the majority of the Chinese, merchants and soldiers, have married Tibetan wives and adopted at least some of the manners and customs of the country if not the dress.

Crops of maize, wheat, and barley are grown, besides buckwheat in the autumn, but the area under cultivation is very small. Many of the houses are built of stone, and there is an air of prosperity about the place, with its streets of shops and hawkers, in spite of the gaunt skeleton walls of the once huge monastery, now utterly destroyed. Since the rebellion, the majority of the lamas have been killed or scattered, and the ragged-looking mendicants who now hang about the streets or loaf round the tiny lamasery which the remnant were allowed to rebuild, are no credit to the profession.

I have already referred to Chao Er-feng, Warden of the Marches, and subsequently Viceroy of Ssü-chuan, who was entrusted with the stamping out of the Tibetan revolt of 1905; and however much one may denounce his methods, he met with considerable success. Peace and security now reign in Batang (or did before the present Revolution) instead of lawlessness, robbery, and murder. Unfortunately

Chao was not content with securing safety along the main road across Ssü-chuan as far as the Tibetan frontier, but must needlessly push on to Lhasa, an unjustifiable procedure, since he had no money. To meet his requirements he seized the funds of the railway syndicate to pay for this vainglorious adventure, and it was owing to this that the dissatisfied people of Ssü-chuan rose in the capital shortly after I left Batang.

Meanwhile Chao had accomplished much, having established the telegraph line and postal communication between Batang and Lhasa, though it is easy now to see the tremendous nature of the task undertaken by the Warden, and the folly of embarking on such an ambitious adventure with so much discontent behind him. Far Western China and Tibet are so completely severed from China proper in community of interests, by geographical and physical barriers, by race and creed, that an independent western China seems inevitable. As an active colonising power, China has proved herself a failure, owing to her haughty attitude, her lack of sympathy with the natives with whom she comes in contact, and her unique methods of admini-As an indirect colonising force, however, by stration. means of passive absorption, the Chinese, owing to their extraordinary adaptibility and virility, are unsurpassed.

Chao was murdered soon after he became Viceroy of Ssü-chuan; the grim old Warden of the Marches who had not scrupled to slay and hammer with wooden clubs those who thwarted or opposed him, who had intrigued with the Tibetans to set up independent government in Tibet, who had harried the lamas and razed their monasteries to the ground, was the victim of conflicting interests. He paid the penalty of the autonomy enjoyed by the great western province of Ssü-chuan throughout the Tibetan campaign,

being ultimately murdered by his own soldiers.

While in Batang I was privileged to see one of the minor Tibetan princes who a couple of months previously had received 1500 blows by order of the Viceroy for misgovernment. The wounds were now almost healed, though the man showed us a round hole the size of a crown piece in his thigh, and was scarcely able to walk. As a rule 1500 blows such as the soldiers give with heavy

wooden clubs is sufficient to flay a man to ribbons, and, hammered till he resembles a senseless jelly, he is dragged out to die; but this sturdy man had lived, and Mr Edgar had visited him day after day to pour balm into his wounds,

though no doubt he was a scamp.

In appearance he was a well set-up good looking young fellow, and his small room was surrounded with the most gorgeous knick-knacks of their kind—silver prayer-wheels and tsamba-bowls, a silver-mounted snuff-box made from the claw of a tiger, brass images and kettles, and alabaster cups. Round his neck was an amber and coral rosary; on the walls were quaint pictures emblematic of Buddhism and horoscopes, and the floor was carpeted with rich rugs.

On the third day of my stay at Batang, Kin arrived, so on August 6 we started back for A-tun-tsi, not however by the most direct route, for I had applied to the Prefect for permission to go westwards by the main road into Tibet, a request which he reluctantly granted on condition that I would sign a paper relieving him from all responsibility.

The following statement was therefore drawn up in English and Chinese, two copies being made, one of

which I retained myself.

"I, F— K— W—, wishing to go to Garthok in Tibet for the purpose of collecting plants, go entirely on my own responsibility, nor do I ask for any help from His

Excellency W-, Prefect of Batang."

Probably the Prefect realised as well as I did that so far as our respective Governments were concerned, such a document was not worth the paper it was written on, and I was astonished at his accepting this guarantee; on the other hand his obligation ended there, and it was entirely an act of grace on his part to provide me with an ula passport and a mounted trooper as escort. It appeared later that the Prefect had made this provision never dreaming that I would agree to sign such a document, for no sooner had I departed than he fled to Mr Edgar in a most pitiable state of nervousness, begging him to call me back; but it was then too late.

For the first two days on our return journey to A-tun-tsi we retraced our footsteps, but on reaching the Yang-tze, we

abandoned the long hot ride down the valley, and embarked in a coracle for a voyage down the river. This coracle was made from three ox-hides sewn together and caulked. The framework consisted of four pieces of wood in the form of a trapezium, from which the hard semi-globular skin was suspended like a bag, expanded below by means of a few lianes stretched across like ribs. Its extreme length was barely six feet, its breadth three feet, and its depth two feet, so that with five men and the luggage on board there was not much room to spare, and the gunwale was only a foot above the water. It looked the flimsiest thing in the world to launch on that great river, but its strength and seaworthiness were beyond question. Tibetans navigate many furious rivers in these craft; but when they are very drunk it is best not to sail with them, for then they fear nothing.

A single Tibetan formed the crew of our coracle, and leaning over the narrow forward end he from time to time dug deeply into the water with his paddle, though only for the purpose of keeping us well out in the current. Beyond that he made no attempt to steer, and we drifted lazily down the river, sometimes broadside on, sometimes spinning slowly round, according to the caprice of conflicting currents. When the man put us ashore some fifteen miles lower down—it had taken little more than two hours—he drew the coracle ashore and picking it up, started off homewards with it over his head and shoulders, like a

gigantic hat.

It may be worth while to record here a few differences I remarked between the Yang-tze at Batang, and its sister rivers the Mekong and Salween. A few miles lower down, it is true, the Yang-tze is less unlike them, for it also flows through a series of terrific gorges; but even there it is sufficiently dissimilar in important respects to make the following comparison of interest, and this change of character itself at once distinguishes the Yang-tze from the Mekong and the Salween.

(i) The Yang-tze is much broader than either of the other rivers, probably averaging nearly twice the breadth

of the Mekong.

(ii) The mountains rising immediately above the river

are neither so high nor so steep as in the case of the other two1.

(iii) It has the slowest current of the three, though it brings down much more water than either of the others.

(iv) It flows at a considerably higher level. This is

a point to which we shall have occasion to refer again.

(v) It is interrupted by fewer rapids. From the Batang river to below the ferry, a distance of quite twenty miles, there is not a single rapid which would impede navigation by canoe.

- (vi) A continuous shelf of alluvial detritus and blown sand forms a low platform or bank between the river and the mountains, so that on either side the path rarely need ascend to any height above the river. Small sand-dunes are not uncommon. Houses are not, as on the other rivers, confined to the mouths of ravines, but occur scattered along both banks.
- (vii) There are no gorges, big screes, or spurs projecting far out into the river, so that the latter maintains a much straighter course, and there are none of those abrupt S-shaped curves so typical of the Salween.

(viii) Some of the tributaries are of considerable size, and flow quietly into the Yang-tze from wide valley mouths. Nowhere is the basin of this river so narrow as are those of the other two.

Possibly the Yang-tze is nearer its base level of erosion than either of the other rivers with which we are comparing it, and hence is much older. This at least would be in accord with the theory that the watershed between the Mekong and Salween rivers was thrown up at a time subsequent to the elevation of the Yang-tze-Mekong watershed. In spite of the differences mentioned above, one meets with the same rocks in the valley of the Yang-tze as in those of the Mekong and Salween—limestone, granite, and metamorphic rocks.

After leaving the coracle we secured porters from the village and started for the ferry a few miles down the river; meanwhile dusk fell and a stormy night set in, heralded by distant thunder. Just as we embarked in

¹ A combination of these two characteristics precludes, as already remarked, the possibility of rope bridges over the Yang-tze.

the scow, the storm burst right overhead, torrents of rain pouring down. In the darkness the river, now white with foam, was revealed by brilliant flashes of lightning which seemed to fill the valley with red fire, and the thunder roared amongst the mountains. As the storm had come so it passed, travelling rapidly south-east, and the thunder grew fainter and fainter till it died away altogether. But for an hour the lightning danced far down the winding valley, like a candle flickering in a draught at the end of a long passage. A long weary tramp leading the ponies and stumbling over all sorts of obstacles brought us at ten o'clock to the village where we had slept previously, and we continued to Pa-mu-t'ang next day.

On the following morning August 8, we climbed to the summit of the eastern watershed, finding the same limestone towers and vast screes crowning the ridge as above A-tun-tsi. Two lakes I found here, at an altitude of between 16,000 and 17,000 feet, undoubtedly occupied rock-basins, and the belief which had been gradually forcing itself upon me, that the Mekong-Yang-tze watershed had previously been glaciated, became more firmly rooted than ever.

From the summit of the pass (about 17,000 feet) I looked westwards across the Pa-mu-t'ang valley to the rolling hills of the Tibetan plateau, where I caught sight of an extensive lake, bearing rather north and some distance west of Pa-mu-t'ang, but the weather was so thick that I obtained only momentary glimpses of it, and do not

know either its position or size.

We returned to Pa-mu-t'ang for lunch and I now sent Kin to A-tun-tsi with instructions to go over some of our old tracks, collect any seeds that were ripe, and mark down all new flowers of any interest, while the rest of our party, namely Gan-ton, the soldier from Batang, and myself, with two baggage ponies, left the A-tun-tsi road and struck off westwards across the plateau by the Jung-lam, the great road that crosses Asia from Peking to Kashmir. It was miserably cold up here at 14,000 feet, and the rain which had held off for a part of the morning, now came down worse than ever.

At the highest point reached we passed the old boundary stone marking the frontiers of Tibet and China, set up I know not when, for the inscription is all but defaced. The road was also marked by numerous mani pyramids of white crystalline rock, probably quartzose, which must be conspicuous on all but the darkest nights. These mani pyramids consist of long low piles of rock slabs, on each of which is carved the familiar Tibetan prayer "Om mani padme hum!" the letters being sometimes beautifully coloured and ornamented. Wooden posts, surmounted by a crescent and a cone, usually crown these cairns, and if it is a very long pile-many extend for hundreds of yards, or there may be strings of them together-there will be several such posts. Though the pyramid is never more than a few feet high, hundreds, nay thousands, of hard stones, painfully carved, go to its formation, and one trembles to think how many hours' work they represent. But what is time to a man who is trying to acquire merit and stifle desire!

In spite of the rain and cold however, the plateau was not altogether dismal, for the bright green grass dotted with the erect racemes of a *Potentilla*, and in parts blue with a Boraginaceous flower, was a pleasant contrast to the barren mountains we had climbed earlier in the day. In the shelter of the mani pyramids the tall blue spikes of larkspurs and other flowers showed up vividly, but the plateau here was quite treeless, and even dwarf shrubs were extremely few and confined to sheltered spots.

In the evening we descended into one of the plateau valleys, and fording a river which rolled down a torrent of red water we reached the miserable village of Lham-da, which, in spite of the black mud a foot deep in its narrow streets, boasted a small lamasery and several substantial houses of mud and stone.

From Lham-da we continued across the heads of several small valleys leading down from the plateau above to the Garthok river, the intervening spurs being well forested on their northern slopes, and the valleys, through which wriggled swift little streams, covered with rich pasture. In the valleys the going was very bad, for the ground was a quagmire owing to the incessant rains and we had to cross numerous swollen streams, but a good solid road led over the spurs, from one of which I caught sight of snow

mountains in the west, probably Ta-miu, of which more anon. In the lower valleys, limestone only was visible, and here the monotony of rolling grass-land hills was frequently interrupted by hideously bare scarps, sills, and formless bosses of rock. As we continued in a north-westerly direction however, we came back into the red sandstone country, the strata dipping at high angles, so that curving across the backs of the long low hills they resembled the fleshless ribs of some huge leviathan stretched out to die.

In this corner of Tibet the plateau seems to have a foundation of limestones bent into the form of a basin, or perhaps thrown into a series of folds, the hollows having been subsequently filled up with sandstone, though not to a sufficient depth to overlap the limestone along the rim of the plateau, which consequently appears round the eastern

edge, and in every deep valley.

Scattered huts and occasional small villages—at one of which, called Ngu-shi, we stopped for lunch—occur in the valleys, all with large scaffolding frames on which to stack hay and straw standing on the outskirts, and looking for all the world like the beginnings of a London hoarding. Barley is almost the only crop, though a few vegetables such as turnips are grown. The plateau is covered with grass, but the narrow river valleys are well forested with oaks and conifers, and thickets of *Hippophaë rhamnoides* conceal the streams very much as osiers nestle over them in East Anglia.

In the afternoon we reached Phula on the Garthok river, here very much smaller than where we had last seen it at Chia-ni-ting. It was, however, in full flood, deep and swift, the water of a bright red colour from flowing over the sandstone. The post-house at Phula is kept by a Chinaman, as are most of the inns and shops on the Lhasa road. This is the real invasion of Tibet, but it has failed for the reason that the women have Tibetanised their husbands. How can the alien from the rich valleys of the Flowery Kingdom maintain his nationality in such a dour land?

All the post-houses were placarded with Imperial Government edicts in Chinese and Tibetan, setting forth

the duties of the inn-keeper, scale of pay, and so on; and on presenting my ula passport I had no difficulty in getting a change of ponies. What was set forth on my passport I cannot say, for even had I been able to read Chinese it was quite illegible; but attached to it were two small squares of paper, on one of which was depicted in crude outline a yak, on the other a pony or mule, both bearing official stamps; so that the meaning was sufficiently plain,

the pictures speaking for themselves.

In the well-wooded valley of the Garthok river hares were numerous, and not having my gun with me, I amused myself by trying to shoot them with the soldier's rifle, but met with no success though they were ridiculously tame, merely pricking up their ears and running a few yards after each report. A hare for supper would certainly have been a godsend just then, as I had had nothing but eggs and bacon for several days-perhaps that was why I could not shoot straight. The river twisted and twined through the valley in serpentine fashion, sometimes overflowing the grassy flood-plain but often enclosed by cliffs of red earth as much as twenty feet high, river terraces being well defined in places. At nightfall we waded through a foot of mud to the squalid village of Chia-ta-tih only about ten miles short of Garthok, and the four of us were herded together into a single-roomed hut already occupied by a large family. For the first half of the night an old man droned "Om mani padme hum" till he finally prayed himself to sleep, and for the second half two babies kept up a continuous coughing and spitting, which was scarcely surprising considering that their dress consisted of one goatskin garment apiece, while the altitude was about 10,000 feet, so that even in summer, owing to the continual rain, the air was very chilly.

Above Chia-ta-tih, which I found next morning to consist of half-a-dozen hovels built of rough logs or of stones insecurely plastered together with mud, and a lamasery with fifteen or twenty priests, the valley begins to open out on to the plateau, and forest ceases. The valley floor, affording the richest grazing ground imaginable for large flocks of yak, sheep, and ponies, reaches a breadth of 300 to 400 yards, and the brilliant green grass is

spangled as before with patches of yellow *Pedicularis*, blue Boraginaceae, crimson *Rhinanthus* and other flowers.

Rounding a high rocky bluff, the summit of which was crowned by a temple, we came suddenly upon Garthok, until this moment quite invisible owing to its being built in a depression, so that the flat house-roofs came to be almost flush with the general level of the valley floor. Indeed had it not been for bunches of poles sticking up here and there carrying prayer flags, I should scarcely have seen it at all till I rode into the narrow street, and even then it turned out to be a much bigger place than I had supposed at first glance. According to Captain Rawling's account, villages with important names in western Tibet turn out to be miserable places with half-a-dozen huts, and such for instance is the case with Garthok near the source of the Sutlej, though it is nevertheless an important trading centre in the summer. In eastern Tibet, however, villages which are important are generally also large and the Garthok of Kham province (known to the Chinese as Chianca, by which name I shall in future refer to it, thus avoiding any confusion with the Garthok of western Tibet) is almost as big as Batang, boasting I suppose quite 200 families, a lamasery with over a hundred priests, an official yamen with a small garrison, and no less than four schools!

The moral of all this is that trade between China and Tibet is in a far more flourishing condition than trade between India and Tibet, and that it is the Chinese who have made eastern Tibet what it is. Nor is it to be thought that all this has taken place only since 1905, for the Chinese have been in eastern Tibet for more than a century, gradually building up the present prosperity, though it is well known that the events of 1905 gave an impetus to their activity.

At the time of my visit to Chianca the official and garrison were away, for throughout the summer Chinese and Tibetans had been fighting in the Pomed country a fortnight's journey west of Chianca, and though local rumour said that the Chinese were losing heavily, such statements must be taken for what they are worth. Many of the houses in the village are built several feet below

the level of the cobbled street, and being only a single story high, one looks right over the first floor. Often there is only a single room, which being partly underground is dark and dungeon-like. The numerous small shops are kept by Chinese and semi-Chinese, but the population of the village is mostly Tibetan, at least in appearance. The women put black grease on their foreheads and cheeks, a cosmetic which is supposed to prevent the skin cracking in the cold winds, though Huc, describing the origin of this habit, gives a much less prosaic reason for the black grease; but it is not beautiful. They wear their hair in innumerable tiny pig-tails which are collected together at the waist and woven into a single artificial plait hanging down to the ground; or the entire contrivance may then be wound round the head.

As usual, the official inn is kept by a Chinaman, who however is Tibetan in everything but birth. He showed me some wounds, the result of 800 blows recently inflicted by the official because the inn was not in a fit state of repair for government officials, and asked me for something to rub into them.

As for the schools at which all children are bound to attend, I visited one, and found the children singing Chinese sounds out of a book of characters. Boys and girls were in separate rooms and the Chinese pedagogue in a third room, I suppose waiting till the children had learned a certain number of characters, when they would be called upon to repeat them without the book, or recognise a given character at sight. It is really astonishing what the Chinese have done as regards establishing schools in the smallest villages, though whether the idea of making all Tibetan children learn to speak and read Chinese is meeting with the success anticipated, is another matter.

I had scarcely settled down in the village for the day when a Chinaman came and begged me to visit his son who on the previous day had been bitten by a dog. I found the child, who was only six years of age, sitting quietly in the room, with a nasty wound in the right lower jaw, now a horrible mess of clotted blood and red mud which had been plastered on to staunch the flow of blood. It took half an hour to clean it with warm water and a lancet, for I had literally to cut away the scabs, an operation which

the patient stood with great fortitude; but when it came to cauterising the wound without stint there were shrieks and struggles. However I was adamant and thoroughly burnt out the surface flesh, after which I bandaged the wound and made the little fellow as comfortable as possible. I wanted to try my hand at putting in stitches but the father thought the boy had stood enough, so I desisted, at the same time pointing out that it would leave a deeper scar.

In return for my work I asked the father to collect for me and send to Batang the seeds of certain flowers I showed him just outside the village, about five plants in all. This he promised to do, but the seeds never arrived at Batang, and distrustful of Chinese gratitude, I decided that never again would I attend a Chinaman unless I knew him. After all, I had used up all my caustic on that boy, and it might have been awkward if I myself had been subsequently bitten by a dog!

Another patient who came to me in Chianca was the Tussu, an old man of sixty, who showed me some nasty sores on his wrists and ankles, filthy with mud and pus. I simply washed them and dusted them over with iodoform, for which kindness the Tussu sent me several rotten eggs

and a big bowl of excellent milk.

Later in the afternoon I went up the valley and scrambled about on the sandstone cliffs, now gay with flowers such as Meconopsis Wardii, several Labiatae, species of Campanula, Pedicularis, and so on, making a very striking show against the red rock, in strange contrast to the fields of barley down below which were suffering badly from smut. Meanwhile Gan-ton had made arrangements for the continuation of the journey next day to Samba-dhuka on the Mekong, as I wished to return by a different route. My Chinese soldier had now to return to Batang, and I was given instead a Tibetan soldier. I have already remarked that the official was away, and had I wished, there was nothing to prevent my continuing along the road to Lhasa, distant about five weeks' journey over extremely difficult country; but time was getting on and I was due back in A-tun-tsi if I wished to make the most of the season in that region.

CHAPTER XI

THE WONDERFUL MEKONG

Looking back as we rode up the valley on the following morning I quickly realised how it was that the forest stopped short here at 11,000 feet, for the low undulating hills offered no protection whatever to the fierce winds which sweep down from the high plateau and rush through the narrowing jaws of these valleys. Grass-land alone could withstand such a scourge, and even so the rib-like sills of harder rock stand out bare and barren on the

steeper slopes.

To the north the sky was as black as ink, and we had no sooner turned off westwards just above the village—the main road to Lhasa continuing northwards—than a drenching rain-storm was upon us. Several Tibetan horsemen, wearing long red cloaks of rich cloth and broadbrimmed felt hats with red crowns—altogether a quaint garb—passed us, but there was little traffic on the road. At length we reached the plateau-watershed, our direction being about S.S.W.; in the distance immense patches of blue indicated the brilliant Eritrichium, and Meconopsis Wardii was abundant.

We had scarcely begun the descent of the richly-forested western slope than there burst upon us the most terrific rain-storm I have ever experienced either within or without the tropics. The noise made by this deluge was extraordinary; in an incredibly short space of time rivers were rolling down the hill side, the ponies could hardly keep their feet on the slippery turf, and we were all drenched to the skin and so numbed by the cold that I could with difficulty clutch the sodden reins in my swollen fingers. It was useless to seek shelter beneath the trees, for the wind drove the rain straight at us, but it was equally impossible

to face it; the loads became loose, the men lost their tempers, and I began to regret having ever adventured myself in

these storm-swept Tibetan uplands.

This was obviously the rainy side of the plateau, for the thick forests of fir extending above 13,000 feet told their story as plainly as did the much dissected ridges, the curious isolated cones of earth, and the wide-mouthed valleys with their fan-shaped loads of detritus. These latter were short and broad, forming equilateral triangles, as did the valleys from which they had been shot out. Lower down, the valley floor was littered with large boulders and gravel through which the torrent, now grown to considerable size, cut its way, sometimes flowing in a deep ravine. No doubt the heavy summer rainfall of the plateau country is due not so much to the rain-bearing winds from the S.W., which we have already shown to be stopped by the Mekong-Salween divide, but to the local hot winds blowing up the Mekong rift at last unloading on the high cold plateau the moisture they have gradually accumulated.

The Mekong gorges are here deeper, narrower, and more arid than ever, but this local gale cannot blow day after day for several months through all these miles of gorges without sooner or later throwing down some moisture. A point must be reached at which the pressure becomes such that the hot air is forced to rise and spread out, as it seems to do north of A-tun-tsi, where the Mekong swings away to the north-west and a long arm of the plateau is thrust down between it and the Yang-tze. It is natural to suppose that the broad expanse of high plateau would condense more rain than does the higher but extremely narrow ridge further south, and it is this difference of rainfall that we want to account for.

After condensing most of their moisture on the Mekong-Salween divide, the prevailing winds sweep on over the open plateau, which for that reason—namely, the exposed nature of the country at this high altitude—can support nothing but grass-land. By the time the high limestone ridge overlooking the Yang-tze is reached there is scarcely any moisture left, so that, as usual, barren screes prevail above 16,000 feet.

Thus in the plateau region, starting from the Mekong

where it begins to separate from the Yang-tze, we get, first, the arid region in the deep gutter itself; secondly, going eastwards and ascending, forest; thirdly, grass-land; and finally above the Yang-tze, scree; which is exactly the sequence in the horizontal plane which we find in vertical extension on the Mekong-Yang-tze divide further south. That is to say, the grass-land plateau is simply the equivalent of the alpine grass-land to which we have already referred as a prominent feature of that ridge.

Under the miserable conditions I described before this digression we resumed our march after a halt to readjust

the loads.

Below the gravel region we came again upon cliffs of limestone, and of red sandstone conglomerate with waterworn pebbles embedded in a hard siliceous matrix. Approaching signs of habitation we presently came upon an image of Buddha, extravagant in design and execution, painted in crude colours on a smooth limestone cliff: close by was the village of La-wu-rah, amidst terraces of barley and buckwheat.

Away to the west, in Tsa-rüng on the other side of the Mekong, snow mountains appeared, phantom-like amongst the clouds. This range, of which I was destined to get a much better view later, is known to the Tibetans as Ta-miu, and is evidently the northward extension of the K'a-gur-pu ridge on the main Mekong-Salween watershed, but whether it is continuously above the snow-line from K'a-gur-pu onwards is a point I could not decide.

As we descended, the valley took on more and more the character of the now familiar arid region. Granite and metamorphic rocks re-appeared, and stunted bushes of Sophora viciifolia took the place of forest. Presently we crossed the terracotta-coloured stream, here rather broader and shallower than above, but though we could hear the boulders grating and rattling against each other as the flood swept them along, and the ponies were a little shy of entering the water, we had no real difficulty in crossing. Later our cavalcade floundered into a quagmire in the valley bottom, and further on we found the cliff path blocked by two enormous boulders which had rolled down the mountain side. Happily the largest of them was nicely

balanced or we could never have stirred it, but the combined efforts of five men fortunately sufficed to send it hurtling down the slope and we were able to pass.

We had left the worst of the rain behind now and it grew clearer as night drew in. At the village of Wa-ka-tih we changed ponies for the second time, and in view of the fact that it was getting dark and we had still a long way to go, I told Gan-ton to see to it that we did not waste time

changing ponies again.

Across the valley was a village built on a steep slope, every house supported on piles. Moreover the houses were built close together, so that in the dusk the place looked for all the world like a Malay village. This method of raising the houses on piles is common amongst the poorer people of S.E. Tibet as well as amongst the Lutzu tribe, though I do not think the people who affect it are genuine Tibetans. With their dug-outs, fishing-nets, and pile dwellings the Lutzu remind one forcibly of the Malays, and indeed there may well have been some connection between the tribes of these regions and a seafaring folk; otherwise whence do the Lissu women get their cowries?

At the next village, called Ndu-er, all the women and children flocked out to have a look at the stranger, dogs barked, and everyone talked and shouted at the same time; then two of the men, in spite of the soldier's orders, insisted on unloading one of the ponies, whereupon he jumped down in a great rage, and picking up two rocks each the size of a quartern loaf, flung them with all his force at the offender standing but a few feet from him. The first missed its mark, nearly brained a child standing just behind, and ricochetted off the ground on to the hind quarters of a dog, who went off yelping; but the second one caught the victim fair and square amidships, luckily just where the sleeves of his gown were tied round the waist, making a thick pad. He doubled up like a shot rabbit, but apparently no serious damage was done; still, I should not like to have been the recipient of the missile. I now interfered and through Gan-ton put a stop to Every man carries a sword here and we should have seen them bared next minute.

The incident cost me some money on the principle of

the Workmen's Compensation Act, for my soldier with true oriental despotism had warned the people in one village that if they did not do what I told them they would be beaten! They are great swashbucklers, these Tibetan soldiers, thriving on reflected glory; and though my guide was only anxious to please me, he was evidently a man of both rank and authority, for every villager cringed before him. As long as the people are quiet, such a reputation as he had given me does no harm, but should they be restless, it might easily occur to them that after all I was alone. In the present instance therefore I tempered justice with mercy and hard cash.

At nightfall we climbed the high spur guarding the valley mouth and found ourselves on a narrow path with a fearful chasm below us, where a long ribbon of water caught the last dying light, which gleamed irregularly on swirling current and racing eddy, while there floated up to us out of the darkness the hollow booming of the restless river. It was the Mekong thundering southwards through the gorges. I have already said that the Mekong is the smallest of the three rivers, having neither the tremendous current of the Salween nor the great breadth of the Yang-tze. Yet when I heard it at night pouring forth from that deep wound in the Tibetan moun-

tains I thought it the grandest river of them all.

The path down the river, though well made, was narrow, and in the gloom the precipices on the one hand, and towering screes stretching up and up out of sight on the other, made riding uncomfortable, so I walked. There was some doubt as to whether we should be able to reach Samba-dhuka, our destination on the Mekong, at all, since the crossing of a big torrent in the semi-darkness was no easy matter. However we presently came upon the stream and crossed in safety, the men wading through waist deep and the ponies struggling across with the water almost up to their girths. About nine o'clock we suddenly came upon Samba-dhuka which, as I found next day, consisted of some twenty or thirty wooden huts, hidden in a mountain alcove, on a boulder-strewn alluvial fan with broad terraces of buckwheat. Everything was very still, but the men approached giving the Tibetan call, and in a twinkling dogs were barking, people were out with flaming torches, and we were made welcome for the night. I was very tired, for we had been ten hours in the saddle, drenched most of the time, but the air down here was warm and balmy, and as the moon rose over the mountains lighting up the thin river mist, I slept soundly again.

Early on the following morning, while the men were

getting ready, I went down to look at the Mekong.

Just here the river presented an extraordinary spectacle. For a quarter of a mile it flowed between fluted walls of limestone, not more than fifty feet apart and perhaps a hundred feet high, and looking down from the cliff on to the red water writhing in this confined sword-cut below gave one some idea of the irresistible power of the river. It was impossible to escape the conviction that the river itself had sawn its way down between these cliffs to its present level, especially as there were traces of another similar wall at a higher level. The depth of water piled up in this narrow space must be tremendous, and considering the immense volume that was coming down and the quite puny size of the torrents which flow from the dividing ridges, really distant only a few miles to east and west, I am inclined to think that the Mekong rises further up in Tibet than is generally supposed. For where the Mekong-Yang-tze ridge spreads out into the plateau, it is not the former river which drains the wide expanse of rain-swept grass-land-at least not here, whatever it may do further north.

Across this chasm were slung rope bridges, though I should have shied at crossing by them, and on the other side a mountain road led away across Ta-miu into the heart of Tsa-rüng; but there was no road down the Mekong, and no road up the river either, above the valley we had come down. However, there was luckily no occasion to retrace our steps to Chianca.

Masses of light cloud hung about the valley, and a heavy dew had settled on everything, but no sooner had the sun appeared over the ridge than this was dispersed like magic, blue sky appeared overhead, and the ravine began to heat up for its daily roasting, though columns of cumulus were already towering up in gigantic puffs from the mountains to the west. Still it looked as if we were

going to have a glorious day.

Our route lay in an E.N.E. direction up the bed of the torrent we had with some difficulty crossed on the previous evening, and now we had to cross it not once, but scores of times; in some spots it looked a most formidable undertaking, but as we ascended and the stream divided the crossings of course became easier.

The main geological features around us were gravel cliffs, the familiar red sandstone of the plateau, and earthtables, each consisting of a column of earth capped by a

flat boulder.

At Du-bas, the first and last village in this gulley, we changed ponies and set out in quest of a new route over the watershed.

Higher up in the forest, above the small cultivated plots, we found that the torrent, here ploughing its way through a deep trench cut out of red gravel, had recently come down in tremendous flood, spreading deep deposits of semi-liquid gravel everywhere, and through these abominable quagmires the ponies had to flounder knee deep; they got thoroughly scared sometimes, and indeed it was most unpleasant.

Forests of fir and of oak marked the shady and the exposed sides of the valley respectively, but down by the stream we rode through groves of poplar, willow, birch, and numerous shrubs to the pass, whence we looked down into a second valley, the separate bands of fir and oak forest being here very conspicuous. So dense was the vegetation that one of the loads was wrenched from the saddle as we brushed through, and after that came marshy ground and thickets of willow, till finally climbing up between really magnificent fir trees, we reached the main pass and emerged quite suddenly on to the grassland plateau once more.

So far the weather had kept fine, though by this time we were well up in the mountains; but no sooner did we get out on to the open plateau than I saw we were in for trouble. A nasty raw wind blew in violent gusts, and right in front of us a great black ridge of cloud hung low over the hills. We had scarcely turned southwards down the

valley than the storm burst upon us with amazing fury. The whole earth seemed to rock to the thunder-claps, as the echoes tumbled from side to side amongst the hills; the hail lashed into the short turf with a sharp hissing sound, and drummed on our hats and cloaks. Rills boiled up into streams in an instant and came frothing down the grassy slopes. In less than half an hour the valley was wrapped in a shroud of hail more than an inch deep, and looking at those white mountains so bleak and bare, from which lower down a few black clumps of fir trees stretched their grim spires up towards the leaden sky, I thought that winter had already breathed again over the grass-land plateau of dreary Tibet. Yet it was scarcely mid-August.

Wintry enough it looked and felt as I rode behind, following the deep imprints stamped hard in the carpet of hail. Now the ponies cantered and galloped to keep warm, turning their heads sideways to avoid the fusillade of ice, crunching and slipping on the slopes, shying at the dark ribbons of water which every few yards opened up before them, sliding down the muddy banks of the streams, plunging up to their girths in the swollen river, and stumbling in the concealed pica-burrows which honey-

combed the ground in all directions.

Presently we came to signs of habitation—small fencedin portions of the grass-land where barley was ripening,
and scaffold frames had already been erected for stacking
straw. But there were no houses. Lower down, where
the trees began, we passed a few yak herders huddled
under a tree, their long coarse cloaks wrapped closely
round them, a black smoking fire their sole comfort. Wet
and cold as we were, our plight was far less miserable than
theirs, though they were doubtless quite happy. To keep
up our spirits Gan-ton and I sang songs as we rode along;
after all there was a fine feeling of freedom and irresponsibility while in the company of these happy-go-lucky resourceful Tibetans, and when a man feels in first-rate
health, a few hardships only make him more conscious of
his fitness.

At dusk we reached the last house in the valley, a big solid two-storied building, and entering it we were at once made welcome; indeed the good people built up such a furnace in the room allotted to me that some of my clothes were burned and I was soon driven outside by the heat, and compelled to have supper on the roof. All night long it poured with rain, and shortly after starting on the following morning we were as wet as ever.

A few miles below, our stream entered the Chianca river not far south of Phula, and here our soldier left us to return to his home, while we, with another Tibetan lord as escort, followed down the Chianca river in a southerly

direction.

Gradually the valley deepened and high sandstone bluffs appeared here and there, one of which was decorated with a number of ancient Buddhist carvings of unknown antiquity; but unlike the high plateau valleys which only offer facilities for grazing, and are occupied by a nomadic pastoral people, there was here plenty of cultivation on the steep slopes.

My second soldier proved willing to go to even greater lengths in my service than the first had done, for a certain woman having made some trouble about changing ponies, he rode straight at her with uplifted whip, prepared to lay it across her bare shoulders, a chastisement which she

escaped by dashing into the house.

For the second time I interfered, and dismounting, took the whip from him and threatened to beat him with it if he did not behave—though I am bound to confess that this was more because I wanted the whip myself than because

I disapproved of his action.

On general principles I consider it neither expedient nor of the slightest use for a traveller to interfere blindly with native customs, and I am sure the woman was far more astonished to see me tackle the headman than she would have been to feel the whip across her shoulders. Also I doubtless made myself very unpopular with the other villagers, who resent any form of interference with their ruling class. However I secured the whip, a very nice leather one, though I gave the man a rupee for it afterwards.

Next day we recrossed the watershed between the Chianca river and the Mekong; quite a short climb, for we reached the latter river early in the afternoon. The weather

was fine, and from the summit we had an extensive view of Ta-miu, though the high peaks were so buried in cloud that I could only make out one glacier with any certainty. It is, however, a fine range of snow-clad mountains, but it was again impossible to see whether it extended southwards to join K'a-gur-pu, or whether these two massifs are distinct elevations of the main watershed. Personally I believe that, far back between the Mekong and the Salween, a continuous chain of snowy peaks does extend from K'a-gur-pu to Ta-miu and so northwards into Tibet; but it was impossible to prove this while in the deep Mekong gorge itself. Geographically it is not a matter of any importance, but botanically speaking, it might be.

Though we reached the Mekong soon after two o'clock, a delay of nearly four hours occurred before we could secure transport animals, and the journey in darkness down that perilous Mekong road proved most exhilarating; there was no moon, but millions of stars shone in the clear sky, and it was beautifully warm. High cliffs of gravel and rubble, capped by enormous overhanging boulders in most insecure positions, were a feature of the valley here, with the usual

dangerous screes, deep gullies, and broken road.

It being impossible to reach Y'a-k'a-lo in decent time that night, we stopped at ten o'clock, continuing early on the following morning, and at Y'a-k'a-lo we got into difficulties with the official, who at first refused to supply us with transport animals. I went to see him myself however, and he received me with every mark of respect, at the same time pointing out that as I had come by an unauthorised route from Chianca, I must return to the Batang road. The Mekong road to A-tun-tsi was very unsafe, he told me, for an American traveller had killed a Tibetan there several years previously, and he was consequently afraid for my life. Moreover he seemed terribly upset about Captain Bailey's exploit, which had got him into serious trouble with the Viceroy of Yunnan. However I had to get back, and eventually the official compromised; he would give me ponies if I would sign a statement exculpating him from all responsibility and saying that he did not know where I was going!

Of course I complied, as it did not matter a scrap to

me what I wrote, and having written out the document, in English of course, I left them to write the Chinese version as they liked, since I should have been none the wiser had I seen it. Had anything happened to me before reaching A-tun-tsi, I can well imagine how an astute critic would have pointed out that the official's obligation hardly ended with the signing of a document in which neither contracting party understood the writing of the other! Nor does it seem to have occurred to the official that I might have written anything I liked, even to a serious indictment of Of course I played the game, but I am glad for his sake that he never had reason to show the document to the Viceroy, since it was boldly stated that I was returning from Y'a-k'a-lo to A-tun-tsi by the small road, unknown to the local officials! I imagine the first comment the Viceroy would have made would be that it was his business to know! The official refused me an escort on the ground that the journey was quite unofficial, and for that at least I was devoutly thankful; but he had no right to stop me, and he knew it, in support of which statement I could quote no less an authority than the late Warden of the Marches and Viceroy of Ssu-chuan, His Excellency Chao. And being faint-hearted and fearful, he compromised.

There was nothing remarkable about the three days' journey down the Mekong except the extraordinary height of the road above the river, which gave me a vivid idea of the depth of this amazing gutter, for the valley walls still towered high above us. Sometimes we must have been 3000 feet above the water, so that we could look down on to great rapids and yet hear no sound. No journey could be more appalling in its wearisome monotony than that through these arid gorges; climbing up and down over the endless spurs, sweeping in round the endless gullies, we would make good but a few miles in a straight line after

hours of riding.

The morning of August 16 saw the mountains on either side covered with snow, but it melted again during the day, though two or three snowy peaks were now visible at the heads of gullies to the west, again suggesting the continuity of the K'a-gur-pu snowy range northwards to Ta-miu. The plants were those of the arid region, though so high up

were we, sometimes over 10,000 feet, that there was a considerable variety of shrubs.

On the 17th we set out very early, as I wished to reach Adong that night, and at midday I left the caravan and rode on ahead, confident that the men would follow on till they overtook me. Unfortunately I did not realise how far we still were from Adong, and the most execrable part of the road was still to come. In places it was horribly dangerous, and for miles two ponies could not have passed each other by any possible manoeuvre save that of leap frog. I was thankful we met none. To make matters worse my pony threw me and then ran away, and I had great difficulty in securing him, though happily he could not leave the path. The long hot days in the saddle had made me feel dazed and drowsy, and being thoroughly sick of the sight of the Mekong, I paid little attention to the scenery, though one big cataract we passed was particularly fine.

It was dusk when I reached the dark gorge leading up from the river to Adong, and in the waning light nothing could have exceeded the grandeur of the scenery here—towering limestone cliffs with scattered clinging fir trees, the torrent pouring over the rocky precipice in a mighty cascade which filled the gorge with thunder, and looking back, the vast icy pyramid of K'a-gur-pu, pallid and almost unreal against that velvet sky, blocking up the mouth of the ravine.

Long before I reached Adong it was pitch dark, and not knowing the road, I was forced to dismount and lead my pony. Once we stopped instinctively; we were not on the path at all, but on the brink of a precipice. However, eventually we reached the scattered village, and selecting a familiar-looking house as likely to be the one we had stayed at previously, I made an assault upon the door.

"Hullo there!" I shouted in Tibetan, and immediately

came the answer, "What do you want?"

Unfortunately I had now come to the end of my Tibetan vocabulary, and had to go on in Chinese. "Open the door," I said; "I want to stay here to-night, and will give you money."

But I might as well have talked English, for all I was

understood. They went on at me in Tibetan while I kicked the heavy wooden door and cursed them heartily; finally I put my shoulder against it and tried to break it open. it was too strong and yielded not an inch.

Meanwhile there was great excitement within, people running about with torches and shouting all kinds of things, but not a man would show himself, and I could not climb the wall. Had they seen me, all might have been well, for I was known in the village, but apparently it did not occur to them who it was, and fearing a robber ruse they would

neither open the door nor expose themselves.

As I kicked viciously at the door, there suddenly fell a great silence upon the household, which I presently noticed and took to heart; it was the more impressive on that dark night after the recent racket and the lurid glare of pine I thought: "They have gone for their guns; I had better get out of the way," so with one final effort I dashed against the door, which cracked, but would not yield, and to the accompaniment of a long Tibetan curse, I ran away into the darkness laughing.

But my pony and I were now dead tired and it was with a sigh of relief that I eventually found the Tussu's house, where we had as a matter of fact stayed on our way to Batang. Here at least I would be well received, so I

set about knocking up the household.

There was a light burning in the big lonely house, but shout as I would, I could get no response. Finally tying up my pony, I scaled the wall; something was shaking itself in the darkness below, and I dropped down almost on the top of a big mastiff, who had roused himself, and at once set up a tremendous baying, so that I narrowly escaped with a whole skin. Before the household could be alarmed I had climbed up to a window, and crawling through I dropped to the floor and entered the big household kitchen, dashing straight into the midst of a crowd of children playing some game uncommonly like hide-and-seek; it was at any rate equally noisy, which accounted for their disregard of my entreaties for admission.

A panic immediately ensued, and everybody ran away shrieking except a few elders, who stood in the middle of the room staring at me with open mouths. Happily there

was a Chinaman sitting by the fire and to him I explained

my position, quickly reassuring everybody.

They got me some tea and tsamba, sent a boy to look after my pony, and generally did what they could to make me comfortable, which wasn't much; for my goods not having arrived, I was forced to sleep on the floor with my saddle for a pillow and the saddle-cloth for a blanket. I do not remember ever before to have been so full of aches as I was that night after fourteen hours riding and

walking-till the following morning!

Having partaken of a little more Tibetan fare at five o'clock next morning, I set out for A-tun-tsi and had reached the other end of the village, a couple of miles down the valley, when I fell in with Gan-ton and my caravan, who had arrived at eleven o'clock on the previous night, and hearing no word of me, had taken refuge in the first house they came to thinking that I had gone on to A-tun-tsi. I called a halt at once and made Gan-ton prepare me a square meal with lots of fresh yak milk and new-laid eggs, after which we set out for A-tun-tsi, reaching our base camp at midday, having been absent just over three weeks.

For the excitements of that hurried journey to Batang and thence to Chianca in S.E. Tibet I had to thank the French priest at Tsu-kou with his amazing story from Lhasa, which strange to say he still persisted in, even after I had effectually exploded it!

CHAPTER XII

MOUNTAIN AND MONASTERY; A SECOND JOURNEY TO THE YANG-TZE

From August 19 to September 16 we remained at A-tun-tsi, except for three days in camp on the eastern

range.

Day after day we went over the old climbs, finding many of the spring flowers in seed; on the other hand the summer flora at high altitudes was now at its best, great numbers of gentians being in bloom on the grassland while the limestone rocks were gay with bunches of yellow saxifrage. Lower down was a wealth of Labiatae, mostly herbs of rank growth, the majority of the common British genera being represented and, like the gentians, saxifrages, and other genera rich in species, flowering simultaneously. There were also many species of Corydalis, both in the alpine region and at intermediate altitudes, some of them growing as shade plants, some on the open screes at 16,000 feet, while one, with dense spikes of brilliant yellow flowers, was an aquatic.

On the dry rocky slopes exposed to both sun and wind, just below A-tun-tsi, I found a purple-flowered Morina (Dipsaceae), white-flowered specimens also being frequent, and growing on a limestone cliff at 13,000 feet was a small Pinguicula, but unfortunately the flowers were over. I also came across the pretty twining Codonopsis convolvulacea with large mauve flowers, and at 15,000 feet was an erect species of this same genus with pendent bell-shaped corollas of a dirty flesh colour prettily veined with crimson inside, but having a most abominable odour. The genus Codonopsis was represented by yet a third example, which occurred at

11,000 feet; this also was a twiner with flowers like the last-mentioned species and the same disgusting odour.

One day we made the complete circuit of the high mountainous ridge to the west, Kin having discovered what he considered a practicable route. However, before I knew what was coming he had led me to the brink of a clear drop of some thirty feet high, with a steeply-shelving scree below, and down this he coolly climbed gun in hand, though what he held on to puzzled me. In my descent I stuck half way down in fear of my life; while Kin, standing on the screes below, encouraged me with shouts of "Don't be afraid! Don't be afraid!" Finally I got down, feeling very uncomfortable, whereupon Kin remarked quite casually: "I was afraid when I came here a few days ago that if I fell no one would find me!" for he had prospected this hazardous route alone.

The Chinaman does not seem to be troubled with nerves in these matters, not, I think, because he has any less instinctive objection to death or mutilation than the generality of mankind, but because it does not readily occur to him that he might fall off a ledge of rock a hundred feet high, any more than he might if it was only two feet above the

level.

In spite of frequent showers the weather on the whole remained very good till the end of the month, though heavy storms regularly passed over the Mekong valley from K'a-gur-pu to Pei-ma-shan, distant about five miles from A-tun-tsi as the crow flies. Frequently we heard thunder from that direction, and one night a heavy thunderstorm with brilliant flashes of lightning and drenching rain passed over the village. Towards evening, when bright sunshine prevailed at A-tun-tsi, we would sometimes see vivid rainbows thrown against the heavy blue-black skies over Peima-shan, and as early as August 28, the lower slopes of the mountain right down to the pass at 15,800 feet were white with snow, but it did not last out the day. This was the first snow we saw on the Mekong-Yang-tze divide, though already it must have been snowing frequently at this altitude on the Mekong-Salween divide.

One day Sung came to me weeping and asked if he might go back to Tali. On pressing him for particulars

of the trouble, he said that he had no money with which to buy bed-clothes now that winter was coming on, and that he was cold at night and was always feeling ill; moreover he had heard it said that I considered him lazy—which was quite true. However, I had no desire to lose him so near the end, and it was a matter which could easily be put right, so after rowing him for not coming to me at once when he felt ill I gave him some medicine, his wages more than a month in advance, and some extra money for

bedding, lending him my rug in the meantime. A short time afterwards I discovered that he spent nearly half his wages every month on Chinese spirit, which he drank daily, and so far was he from wishing to return that when I taxed him with this vice and told him he could return to Tali if he wished, he did not want to go! To a certain extent I felt duped in the matter, for though I had kept an eye on my men both as regards their own wants and my interests, and had at the outset told Kin to report to me as soon as either of them felt ill or required anything, I was quite ignorant of Sung's habits. However he gained nothing by it, for I eventually deducted the extra silver I had given him from his next month's wages, and though I gave him a small present when he left my service, I did not reward him as I rewarded Kin's faithfulness when I parted from him in Bhamo. Sung was a good cook, but his utility stopped short at that.

On September I we went into camp in one of the valleys above A-tun-tsi at an altitude of 13,000 feet. Next day the porters returned to A-tun-tsi, taking with them the ponies; and leaving Ah-poh to guard the camp, Kin and I ascended the first hanging valley to the alpine grass-land above, finding several species of *Meconopsis* and *Primula* in seed, as well as many plants in flower, chiefly saxifrages, gentians,

dwarf aconite, and larkspur.

It is interesting to note that the seeds of a large proportion of these high alpines living at from 16,000 to 18,000 feet are adapted for wind distribution. For example those of the dwarf rhododendrons are winged, those of the saxifrages and gentians extremely small and light, those of the numerous scree composites provided with the usual pappus, and so on. It is particularly noticeable at these altitudes